EXHIBIT 18



Merriam-Webster's Collegiate[®] Dictionary

TENTH EDITION

Merriam-Webster, Incorporated Springfield, Massachusetts, U.S.A.



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nonbonding • nonjuror

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son-bond-ing \-ban-din\ adj (1952): being or occupied by electrons cap, of an atom's valence shell that are not involved in a chemical bond (a ~ atomic orbital)

*nom-book *buk\ adj (1949): being something other than a book; esp: being a library holding (as a microfilm) that is not a book *nom-book *buk\ n (1960): a book of little literary merit which is

often a compilation (as of pictures, press clippings, or speeches) somebusi-ness \(\frac{1}{2}\) business, -noz\\ adj\((1927)\): not related to business; esp : not related to one's primary business

som-ca-lo-ric \nän-ka-lo-ric, -lo-rid\((1950)\): free from or very low

in calories

in calories.

non-can-di-date \nan-kan-da-dat, -ka-na-, -dat\ n (1944): a person
who is not a candidate; esp: one who has refused to be a candidate for
a particular political office—non-can-di-da-cy \-da-a2t n
inonce \nandta in [ME nanes, alter. (fr. misdivision of then anes in
such phrases as to then anes for the one purpose) of anes one purpose,
irreg. fr. an, on one—more at ONE (13c) 1: the one, particular, or
present occasion, purpose, or use (for the \(\sim \) 2: the time being
**nonce adj (1884): occurring, used, or made only once or for s special
occasion (a \(\sim \text{word})

occasion (a ~ word) nou-che-lance \nim-sho-liin(t)s; 'nim-sho-liin(t)s, -lon(t)s\ n (1678)

aon-cha-lance \nän-sho-Tän(t)s; 'nän-sho-Jän(t)s, -lon(t)s\ n (1678): the quality or state of being nonchalant non-cha-lant \"Tänt, -jänt, -lont\ adj [F, fr. OF, fr. prp. of nonchalait to disregard, fr. non- + chaloit to concern, fr. L. calère to be warm — more at LEE (ca. 1734): having an air of easy unconcern or indifference aym sec coot: non-cha-lant-ly adv non-chro-mon-sous-al \nän-krō-mo-'nō-mol\ adj (1960) 1: not situated on a chromotoma.

ated on a chromosome 1: not involving chromosomes someome 1: not involving chromosomes someome 1: not involving chromosomes someome 1: noncommunity of the someome of the s

: one that does not engage in combat: as a a member (as a chaplain) of the armed forces whose duties do not include fighting b: cryrtland mosacombatant adj
mosacombatant
mosacombatan

non-co-op-er-a-tion _n\text{in-kc-\text{ii-po-'r\text{i-shon\}} n (1795): faiture or re-fusal to cooperate; specif: refusal through civil disobedience of a people to cooperate with the government of a country — non-co-op-er-a-tion-ist\-sh(\text{c-hist\}\n-\text{n-mon-co-op-er-a-tor\}\-\text{-\text{i-po--r\text{i-tor\}}} n = non-co-op-er-a-tor\-\text{\text{i-po--r\text{i-tor\}}} n = non-co-op-er-a-tor\-\text{\text{i-po--r\text{i-tor\}}} n = non-co-op-er-a-tor\-\text{\text{i-min-kre-dot\}} adj (1965): not offering credit toward a distress (~courses)

degree (~ courses)

degree (~ courses)

**ROS-cross-over \-'kró-sō-vər\ adj (1919): having or being chrossosomes that have not participated in genetic crossing-over (~ offspring)

**ROS-cus-to-di-al \-k-s-'stō-dō-s\-adj (1973): of or being a parent who

does not have legal custody of a child

**ROS-cus-to-di-al \-k-s-'s-tō-dō-s\-adj (1968): containing no milk or

milk products (~ whipped topping)

**ROS-cus-to-di-adj (1943): not deductible; esp
- not deductible for income tax purposes. — non-de-duct-ibli-l-ty

\-dsk-to-fin-lo-tō, **

\-dak-ta-bi-la-te\ n non-de-fenne _nan-di-fen(t)s\ adj (1961): not used or intended for or

non-de-fense \näe-di-Ten(t)\ adj (1961): not used or intended for or associated with the military (~ spending) non-de-script \nän-di-\skript\ adj [non- + L descriptus, pp. of describere to describe] (ca. 1807) 1: belonging or appearing to belong to no particular class or kind: not easily described 2: lacking distinctive or interesting qualities: DULL DEAB—mondescript n non-de-structive \di-\struktiv\ adj (1926): not destructive; specif: not causing destruction of material being investigated or treated (~ testing of metal) — non-de-struc-tive-ly adv — non-de-struc-tive-ness n

nees a non-dis-paus-ing \nän-di-o-'pò-zin\ adj (1963) 1: not having a dispause 2: not being in a state of dispause non-di-rec-tive \nän-do-'rek-tiv, -(.)di-\ adj (1931): of, relating to, or being psychotherapy, counseling or interviewing in which the counselor refrains from interpretation or explanation but encourages the client (as by repeating phrases) to talk freely non-dis-junc-tion \nän-dis-jugkl-shao\ n [ISV] (1913): failure of homologous chromosomes or sister chromatids to separate subsequent to metaphase in meiosis or mitosis so that one daughter cell has both

to metaphase in meiosis or mitosis so that one daughter cell has and the other neither of the chromosomes - non-dis-junc-tion-al \-shoəl, -shə-n T\ adi

non-dis-time-tive \-di-stin(k)-tiv\ adj (1916) of a speech sound: having no signaling value

non-di-vid-ing \nan-da-'vi-din\ adj (1945) : not undergoing cell divi-

non-dor-mant \'nin-'dor-mont\ adj (1940) 1: being in such a cation that germination is possible (~ seeds) 2: being in active to the growth (~ plants) non-drink-er \'n(1948) : a person who abstains from holic beverages — non-drink-ing \-kin\ adj non-dry-ling oll \-'dri-lip\ n (1903): a highly saturated oil (as also that is unable to solidify when exposed in a thin film to me have \'non\ pron, sing or pl in constr [ME fr. OE and, fr. ne no one — more at NO, ONE] (bef. 12c) 1: not any 2: not one:

3: not any such thing or person 4: no part: NOTHING:

nome adv (bef. 12c) archaic: not any: NO.

house adv (1631) 1: by no means: not at all (~ too soos to some adv (1631) 1: by no means: pot at all (~ too soos to surince — more at NOON] (1845): the fifth of the canonical sunrise — more at NOON] (1845): the fifth of the canonical some co-nom-le \nin-e-ks-'ni-mik. -kks\ adj (1920): he nome-ees-nom-le \nin-e-ks-'ni-mik. -kks\ adj (1920): he nome-ees-tro-lyte \nin-s-ks-'ni-mik. -kks\ adj (1920): no non-elec-tro-lyte \nin-s-ks-'ni-mik. (1831): a substance the not readily iomize when dissolved or melted and is a poor coelectricity. not readily ionize when dissolved or melted and is a poor one electricity
non-en-ti-ty \-'en-ta-th-'e-na-\ n (cs. 1600) 1: something the not exist or exists only in the imagination 2: NONEXHIDED not exist on exist only in the imagination 2: NONEXHIDED not exist or exist only in the imagination 2: NONEXHIDED not exist on exist only in the imagination 2: NONEXHIDED not exist only in the initial day before the initial to account the normal section of the initial day before the initial to account the initial account of the ini (~ gometry)

non-event \ nin-i-vent, nin-i-\ n (1962). L #: as expect that fails to take place or to satisfy expectations b: as obpublicized event of little intrinsic interest or significance. It TIVE 2

BON-flamma-ble \-fla-ma-bal\ adj (1915) i not flam

not easily ganized and not burning rapidly if ignited — a

bil-t-ty \nin-fla-ma-bil-t-to n

non-flow-er-ling \nin-flau(-o)r-in\ adj (ca. 1934): profe

ers: specif: lacking a flowering stage in the life cycle

non-fla-en-cy \-flii-an(t)-set n, pl -cies (ca. 1945) 1: la

2: an instance of conflictory non-flu-en-cy \-"ili-on(t)-se\ n. pl-cies (cs. 1945) 1: including
2: an instance of nonfluency
non-gono-coc-cal \n\u00e4n_n-gi-no-'k\u00e4-ko\\ asij (1961): act quad's
gonococcus (~ urethritis)
non gra-ta \n\u00e4n_n-gi-no-'k\u00e4-ko\\ asij (1961): act quad's
gonococcus (~ urethritis)
non gra-ta \n\u00e4n_n-gi-no-'k\u00e4-ko\\ n\u00e4n-gra-ta, -'gr\u00e4- adj [permone non grace] [182]: a
approved: UNWeil-Cole
non-green \n\u00e4n-gr\u00e4n adj (1897): not green: specif : analog a
chlorophyll (~ saprophytes)
non-ha-to \n\u00e4n-h-\u00e40-(\u00e4\u00e40, \u00e4-\u00e40): Anti-sunc
non-sis-tone \n\u00e4-\u00e4n-\u00e40-(\u00e40, \u00e40, \u00e40): anti-sunc
out are not histones. our Hodg-kin's lymphomas \nän-häj-kəns-\ s (1974): av da numerous malignant lymphomas (as Burkit's lymphoma) ils as-classified as Hodgkin's disease non-idea-th-cal, 'nin-()-'den-ti-kal, -a-'den-\ adj (1970) 11 as-ENT 2: FRATERNAL 2. no-nil-lion, \no. nil-yan\ n, often attrib [F, ft. L nones shell (as in million) — more at NOON] (1690) — see attaines shell non-in-duc-tive \na. not inductive \na. di (1896); not inductive non-in-duc-tive \nan-in-dok-tiv\ adj (1836); not inductive ing negligible inductance non-in-ter-ven-tion _in-tor-'ven(t)-shan\ a (1831); the real icy of not intervening \(\sigma \) in the affairs of other community ter-ven-tion-lat \(\sigma \) ven(t)-sh(a)-bias\ n or adj non-in-ven-tive\) in \(\sigma \) in \(\si party to a suit at law non-indy-men-tal \nin-joj-men-tal \nin-joj-men-tal

Yould a pl grills [ME grills] (15c): a young Atlantic salmon risk 'grils' is pl grilse [ME grills] (15c): a young Atlantic salmon strong to its native river to spawn for the first time after one winter the broadly! my of various salmon at such a stage of development is a brink and grim-mer; grim-mest [ME, fr. OE grimm; akin to OHI grims flarte, Gk chremetizein to neigh] (bef. 12c) 1: ferce in section or action: SAVAGE 2 a: stern or forbidding in action or section: (a ~ taskmaster) b: SOMMER, GLOOMY 3: ghastly, repelled of sinister in character (a ~ tale) 4: UNFLINCHING, UNYIELDING termination)—grim-ly adv—grim-ness n. [assay 'gri-mas, gri-misk' n [F, fr. MF, alter. of grimache, of Gmc stage size to OE grima mask] (1651): a facial expression usu. of sent or disapproval—grimace vi—gri-mac-er n is he 'gri-modl)-kan, "mai-\ n [gray + malkin] (1630): a domestat expression of female cat

in resper n. often cap Gd.R (ca. 1927): death esp. when personified a sam or skeleton with a scythe ray 'gri-me' adj grim-i-er; -est (1612): full of or covered with size: DRT _ grim-i-ness n

where MRIY—grim-i-ness n to \pi in\ pin\ \pi in\ m grinned; grim-i-ness n \pi \pin\ m grinned; grinned; grinned; grinned; grinned; grinned in the lips so as to see the teeth cap, in amusement or laughter; broadly: SMILE—grin = prin-aing-ity\rinnig-it\ adv
pack \quad \quad pinch\ n fir. the Grinch, character in the children's story How the Grinch Stole Caristmas (1957) by Dr. Seuss] (1979): KILLIOY, SPOIL-

defined Stole Christmas (1957) by Dr. Seuss] (1979): KILLIOY, SPOIL 1973 (Prindly by ground \'graund\; griad-ing [ME, fr. OE grindan; dia to l. frendere to crush, grind] w (bef. 12c) 1: to reduce to powds as small fragments by friction (as in a mill or with the teeth) 2: to near down, poissh, or sharpen by friction (~ an ax) 3 s: opprass, mass b: to weaken or destroy gradually — usu, used with down (powrty ground her spirit down) 4 a: to press together with a rotating notion (~ the teeth) b: to rub or press harshly (ground the cigastic out) 5: to operate or produce by turning a crank (~ a hand args) ~ w 1: to perform the operation of grinding 2: to become powerized, polished, or sharpened by friction 3: to move with difficulty of friction esp. so as to make a grating noise (gears ~ing) 4: 10000R esp: to study hard (~ for an exam) 5: to rotate the hips in an erotic manner (as in a burlougue striptease) — grind-ing-ly 'grindip-le', adv'

stat a (13c) 1. a: an act of grinding b: the sound of grinding 2: desary, monotonous, or difficult labor, study, or routine b: one works or studies excessively 3: the result of grinding: also: manual ground to a particular degree of fineness (a drip ~ of orfice) 4 is set of rotating the hips in an erotic manner gys see work studies excessively 1: an enternal state of rotating the hips in an erotic manner gys see work stades ('grin-dar') n (14c) 1 a: MOLAR b pl: TEETH 2: one that stowing esp. of pornographic or violent films sind out w (1868): to produce in a mechanical way stad out w (1868): to produce in a mechanical way stad out w (1868): to produce in a mechanical way stad out w (1868): to produce in a mechanical way stad out w (1868): no grinding (Sp, alter. of griego Greek, stranger,

standing, shaping, or smoothing sides, shaping, or smoothing sides, shaping, or smoothing sides (grip-()gō\ n, pl gringos [Sp, alter. of griego Grock, stranger, L. Graecus Greek] (1849): a foreigner in Spain or Latin America when of English or American origin; broadly: a non-filspanic proof—often used disparagingly sides (grip-jo) n [F] (1906): any of a class of musician-entertainers of sides. Africa whose performances include tribal histories and geneal-

The Priph of gripped; grip-ping [ME grippen, fr. OE grippen; akin to GE gripun] (bef. 12c) 1: to seize or hold firmly 2: to hold the misrest of strongly (a story that ~s the reader) — grip-per n — gripmen is a decided.

ANCE COMPLAINT

Signam \'grip-mon, -man\ n (1886): a cable car operator

signa \'grip-mon, -man\ n (1886): a cable car operator

signa \'grip-mon, -man\ n (1886): a cable car operator

signa \'grip-mon, -man\ n (1876): an acute febrile contagious

vius disease; esp: influenza I = grippy \'gri-pe\ adj

signa ack \'grip-sak\ n (1877): sufficase

signa ack \'grip-sak\ n (1877): sufficase

signa ack \'grip-sak\ n (1877): sufficase

[1848]: decoration in tones of a single color and esp. gray designed to

signa ack \'grip-sed ack of the color and esp. gray designed to

signa ack \'grip-sed ack of the color ack of the

aria-co-fal-via \gri-2\varepsilon-\varepsilon\u00e4llerin \gri-2\varepsilon-\varepsilon\u00e4llerin \gri-2\varepsilon-\varepsilon\u00e4llerin \u00e4gri-2\varepsilon-\varepsilon\u00e4llerin \u00e4gri-2\u00e4llerin \u00e4gri-2\u00e4gri-2\u00e4gri-2\u00e4llerin \u00e4gri-2\u00e4g

gri-sette \gri-'zet\ n [F, grisette, cheap unbleached cloth, fr. gris] (1723) 1: a young French working-class woman 2: a young

grissette \gri-'zet\ n [F, grisette, cheap unbleached cloth, fr. gris] (1723) 1: a young French working-class woman 2: a young woman combining part-time prostitution with some other occupation gris-gris \'grie-()grē\ n, p! gris-gris \-()grē\ [1698): an amulet or incantation used chiefly by people of black African ancestry gris-ly \'griz-le\ adj gris-li-er; est [ME, fr. OE grislic, fr. gris-(akin to OE dgrisan to fear); akin to OHG grisenlih terrible] (12c) 1: inspiring horror or intense fear (houses that were dark and ~ under the blank, cold sky —D. H. Lawrence) 2: inspiring disgust or distaste (a ~ account of the fire) syn see GHASTLY — gris-li-ness n grist \'grist\ n [ME, fr. OE grist; akin to OE grisdan to grind] (bef. 12c) 1 a: grain or a batch of grain for grinding b: the product obtained from a grist of grain including the flour or meal and the grain offals 2: a required or usual smount 3: matter of interest or value forming the basis of a story or analysis 4: something turned to advantage or use — used cap. in the phrase grist for one's mill gris-tle \'gri-2-li-1; and [ME gristl, fr. OE gristle; akin to MLG gristle gristle] (bef. 12c): CARTILAGE broadly: tough cartillaginous, tendinous, or fibrous matter esp. in table meats gris-til-er; —est (14c): consisting of or containing gristle (~ steak) — gris-til-er; —est (14c): consisting of or containing gristle (~ steak) — gris-til-er; —est (14c): consisting of or containing gristle (~ steak) — gris-til-er; —est (14c): consisting of or containing gristle (~ steak) — gris-til-er; est (14c): consisting of or containing gristle n (1602): a mill for grinding grain (17c) if it is [ME grete, fr. OE grēo; akin to OHG grioz sand] (bef. 12c) 1 a: SAND, GRAVEL b: a hard sharp granule (as of sand); also : material (as many abrasives) composed of such granules 2: any of several standstones 3 a: the structure of a stone that adapts it to grinding b: the size of abrasive particles usu, expressed as their meah 4: firmness of mind or spirit: unyielding courage in the face of

under various special conditions grits 'grits' n pl but sing or pl in constr [perh. partly fr. grit, partly fr. dial. grit coarse meal, fr. OE gryn; akin to OE greor] (1579): coarsely ground hulled grain; esp: ground hominy with the germ removed grit-ty 'gri-te' adj grit-ti-er; -est (1598) 1: containing or resembling grit 2: couraspeously persistent: PLUCKY 3: having strong qualities of tough uncompromising realism (a ~ novel) — grit-ti-ly 'gri-ti-e' adv — grit-ti-nees 'gri-te-nes\ n | Igris-zle 'gri-zol\ n [ME grisel, adj., gray, fr. MF, fr. gris, of Gmc origin; akin to OHG grit gray] (1601) 1 archaic: gray hair 2 a: a roan coat pattern or color b: a gray or roan animal 'grizzle w griz-zled; griz-zling \'griz-lin, 'gri-zo-\ vt (1740): to make grayish ~ vt 1: GRIPE, GRUMBLE 2: to become grayish griz-zled\ 'griz-zid\ adj (15c): sprinkled or streaked with gray: GRAY-ING (a ~ beard) 'griz-zie' adj griz-zil-er; -est (1594): GRIZZIED

INO (a ~ beard)

grizzily 'griz-le' adj griz-zil-er; -est (1594): GRIZZLED

grizzily war of GRISLY

grizzily bear n (1791): a very large brown bear (Ursus arctos horribilis)

of the uplands of western No. America — called also grizzly

groun 'gron' by [ME gronen, fr. OE granlan, akin to OHG grinan to

growl] vi (bef. 12c) 1: to utter a deep mean indicative of pain, grief,

or annoyance 2: to make a barsh sound (as of creaking) under sudden or prolonged strain ~ vr.: to utter or express with groaning —

groan n

Transpar 'gronner' (1795) 1. Greather express with

groun-er \'gro-nor\ n (1795) 1: one that groans 2: a stale or corny

joke, observation, or story lgrost \group (1/2) I was plant sing or pl in constr: hulled grain broken into fragments larger than grits 2: a grain (as of oats) exclusive of the

grout n [ME groot, fr. MD] (14c): an old British coin worth four pen-

nes gro-cer \'grō-sor, -shor\ n [ME, fr. MF grossier wholesaler, fr. gros coarse, wholesale — more at GROSS] (15c): a dealer in staple food-stuffs, meats, produce, and dairy products and usu, household supplies gro-cery \'grōs-rē, 'grō-so-; 'grōsh-rē\ n, pi -cer-ies (15c) 1 pi: com-modities sold by a grocer — usu, sing, in Brit, usage 2: a grocer's

gi-ness \gri-gö-nos\ n scuon — grog-gi-ness \gri-gö-nos\ n sro-gram \gri-grom, \gri-grom, \gri-grom \n (MF gros grain coarse texture] (1562): a coarse loosely woven fabric of silk, silk and mohair, or silk and wool — compare

grog-shop \'gräg-,shäp\ n (1790) chiefly Brit: a usu. low-class barroom

Brit: a usu. low-class barroom 'groim 'groim', alter of ME grynde, fr. OE, abyss; akin to OE grund ground] (ca. 1532) 1: the fold or depression marking the inner part of the thigh; also: the region of this line 2 a: the projecting curved line along which two intersecting vaults meet 3: a rib that covers this edge 3: a rigid structure



groin 2a

\a\ abut \^ kitten, F table \ar\ further \a\ ash \ā\ ace \ā\ mop, mar \au\out \ch\chin \c\bet \e\exsy \g\go \i\hit \i\ice \j\job \n sing \n so \n law \n boy $\th \thin \th \the <math>\n$ loot \n foot \y\ yet \zh\ vision \i. k, ", ce, ce, te, te, "\ see Guide to Pronunciation ded-i-cnt-ed adj (ca. 1600) 1; devoted to a cause, ideal, or purpose

ded-i-cated adj (ca. 1600) 1: devoted to a cause, ideal, or purpose : ZEALOUS (a ~ scholar) 2: given over to a particular purpose (a ~ process control computer) — ded-i-cat-ed-ly adv ded-i-cated \ded-i-cated \ded-i-cated \ded-i-cated \ded-i-cated \ded-i-cated \ded-i-cated \ded-i-cated \ded-i-cated \ded-i-ka-shon\ n (14c) 1: an act or rite of dedicating to a divine being or to a sacred use 2: a devoting or setting aside for a particular purpose 3: a name and often a message prefixed to a literary, musical, or artistic production in tribute to a person or cause 4: self-sacrificing devotion — ded-i-ca-to-ry \ded-i-ka-stor-\ell-categorial \del-categorial \del-catego

de-dif-fer-en-ti-a-tion \(\,\)de-di-fa-tren-chè-la-shan\ n (1915) : reversion of specialized structures (as cells) to a more generalized or properties of the control of th

the \'de\ n (13c) 1: the letter d 2: something shaped like the letter d deed \'ded\ n [ME dede, fr. OE ded; akin to OE don to do] (bef. 12c) deed \'d&d\ n [ME dede, fr. OE dæd; akin to OE dôn to do] (bef. 12c)

1: something that is done (evil ~s) 2: a usu, illustrious act or action
1: something that is done (evil ~s) 2: a usu, illustrious act or action
1: something that is done (evil ~s)
1: something that is done (evil ~s)
2: a usu, illustrious act or action
and in ~) 4: a signed and usu, sealed instrument containing some
lead transfer, bargain, or contract — deed-less \-los\ adj
lead w(1866): to convey or transfer by deed
lead soil \-pôi\ n, pl deeds poil ['ideed + poil, adj. (having the edges
lead soil \-pôi\ n, pl deeds poil ['ideed + poil, adj. (having the edges
cut even rather than indented), fr. \(^1poilf\) (1588) Brit: a deed (as to
change one's name) made and executed by only one party
leady \'d&de\ adj deed-l-er; -est (1615) dial chiefly Eng: INDUSTRIlogs.

charge one's name) made and executed by only one party body '(d8-d2) ad/ deed-d-er; -est (1615) dial chiefly Eng: INDUSTRIOR

sepisy '(d8-jä) n [disc jockey] (ca. 1949): DISC IOCKEY

deem ('d8-jä) n [disc jockey] (ca. 1949): DISC IOCKEY

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deem ('d8-jä) n [disc jockey] (ca. 1949): DISC IOCKEY

deem ('d8-jä) n [disc jockey] (ca. 1949): DISC I

freeze \'dep-frez\ trademark --- used for a freezer for food stor-

freze \'dep-Trex\ vi -froze \-'froz\; -fro-zem \-'fro-z'n\ (1943)

There \\dep-fret\ vi -froze \-froz\; -froz\; -froz\; \dep-fret\ vi -froze \-froz\; -froz\; -froz\; \dep-fret\ vi -froz\ vi -froz\; \dep-fret\ vi -froz\ vi -froz\; \dep-fret\ vi -froz\; \dep-fret\ vi -froz\ vi -fr

deep pocket n (1976) 1: a person or an organization having substantial financial resources 2pl: substantial financial resources deep-rooted 'dēp-'rū-tad, -'rū-\ adj (15c): deeply implanted or established (a \sim loyalty) syn see inveterante deep-sea 'dēp-'sē\ adj (1626): of, relating to, or occurring in the deeper parts of the sea (\sim fishing) deep-seated 'dēp-'sē-tad\ adj (1741) 1: situated far below the surface (a \sim inflammation) 2: firmly established (a \sim tradition) syn see inveterate

Syn see Inveterate
deep-six \dep-siks\ vi (1952) 1 slang: to throw away: DISCARD 2 slang: to throw overboard

slang: to throw overboard deep six n [fr. the leadsman's call by the deep six for a depth corresponding to the sixth deep on a sounding line] (1944) slang: a place of disposal or abandonment — used esp. in the phrase give it the deep six deep—sky '(dép-,ski', adj (1968): relating to or existing in space outside the solar system (deep-sky objects) deep space n (ca. 1952): space well outside the earth's atmosphere and esp. that part lying beyond the earth-moon system deep structure n (1964): a formal representation of the underlying semantic content of a sentence; also: the structure which such a representation specifies

sentation specifies deep throat n. often cap D&T [fr. the nickname given to such an informant in the Watergate scandal by Bob Woodward b1943 U.S. journalist. fr. the title of a pornographic film (1972)] (1973); an informant who divulges damaging information under cover of anonymity deep-water \dep-wo-tar.-wa\adj(1795); of, relating to, or characterized by water of considerable depth; esp: able to accommodate

occangoing vessels (~ ports)

deer \('\dir\ ' n, p\) deer also deers [ME, deer, animal, fr. OE deor beast;

akin to OHG tor wild animal. Lith drasia breath, spirit] (bef. 12c) 1

archaic: ANIMAL: esp: a small mammal 2: any of numerous ruminant mammals (family Cervidae, the deer family) having two large and

two small hooves on each foot and antiers borne by the males of nearly

nant mammals (family Cervidae, the deer family) having two large and two small hooves on each foot and antiers borne by the males of nearly all and by the females of a few forms — deer-like _lik\ adj deer-ber-ry _ber-e\ n (1814) 1: either of two shrubs (Vaccinium stamineum or V. caesium) of dry woods and scrub of the eastern U.S. 1: the edible fruit of a deerberry deer-fly \'dir-fli\ n (1853): any of numerous small horseflies (as of the genus Chrysops) that include important vectors of tularemia deer-hound _haund\ n (1818): SCOTTISH DEERHOUND deer mouse n [fr. its agility] (1833): white-pooted mouse esp: a mouse (Peromyscus maniculatus) widely distributed in forests and grasslands of No. America and Mexico deer-skin \'dir-skin\ n (14c): leather made from the skin of a deer: also: a garment of this leather

deer-skin \(\frac{4}{citr-skin}\) n (14c): leather made from also: a garment of this leather deer-stalk-er \(\cdot\)-sto-ker\ n (1870): a close-fitting hat with a visor at the front and the back and with earflaps that may be worn up or down—called also deerstalker cap, deerstalker hat deer tick n (1982): an ixodid tick (Ixodes dammini) that transmits the bacterium causing I were

mini) that transmits the bacterium causing Lyme disease

deer-yard \'dir-yard\ n (1849); a place where deer herd in winter

lde fac-to \di-Tak-(,RO, da-, de-\ adv [ML, lit., from the fact] (1001); in reality: ACTUALLY ide facto adj (1696) 1: ACTUALL esp: being such in effect though not formally recognized (a de facto state of war) 2: exercising power as if legally constituted (a de facto government) de-fal-cate \di-fal-kit, "föl-, de-; 'de-fol-\ vb -cat-ed; -cat-ing [ML defalcatus, pp. of defalcare, ft. L de- + falc-, falx sickle] vt (1540) archaic: DEDUCT. CURTAIL ~ vi: to engage in embezzlement — de-falcator | N. kā-tar\ n

ca-tor _kā-tər\ n

de-fal-ca-tion _dē-fal-'kā-shən, dē-fòl-, di-: ,de-fəl-\ n (15c) 1 archaic: Deffuction 2: the act or an instance of embezzling 3: a

failure to meet a promise or an expectation

def-a-ma-tion _de-fa-'mā-shən\ n (14c): the act of defaming another

: CALUMNY — de-fam-a-to-ry \di-'fa-m-tor-de-, tòr-\ adj

de-fame \di-'fam, dē-\ w de-fam-de; de-fam-ing [ME, fr. MF & ML;

MF defamer, fr. ML defamare, alter. of L diffamare, fr. dis- + fama

reputation, [ame] (14c) 1 archaic: DISGRACE 2: to harm the reputation of by libel or slander 3 archaic: ACCUSE \$yB see MALIGN — de
fam-er n

famier a de-fam \(\(\) (1053) : to make harmless or less powerful de-fam \(\) (105-fan\) \(\) \((1919) : to remove fat from de-famit \(\) (de-fant\) \((1919) : to remove fat from de-famit \(\) (de-fail\) \((1919) : to remove fat from de-famit\(\) (de-failt\) \((13c) = 1 : failure for defaillir to be lacking, fail, fr. \(de- + faillir to fail\) \((13c) = 1 : failure to something required by duty or law: \(\) \

: in the absence of

*default w (15c): to fail to fulfill a contract, agreement, or duty: as

: to fail to meet a financial obligation b: to fail to appear in court c

\3\ abet \"\ kitten, F table \3r\ further \a\ ash \ā\ ace \a\ mop, mar \au\out \ch\chin \e\bet \e\essy \g\ go \i\hit \l\ice \i\ job \n/ sing \o\ go \o\ law \oi\ boy \th\ thin \th\ the \ii\ loot \iu\ foot \y\ yet \zh\ vindon \in, k, ", ce, & ue, te, "\ see Guide to Pronunciation

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depravity • derived

de-pravility \di-pra-vo-te also -pra-\ n. pl -ties (1641) 1: the quality

de-pravi-ity \di-pra-vo-tè also -'prà-\ n, pl-ties (1641) 1: the quality or state of being depraved 2: a corrupt act or practice deprecate \'de-pri-kā\\ n' -cat-ed; -cat-ing [L deprecatus, pp. of deprecari to avert by prayer, fr. de- + precari to pray — more at PRAY] (\(\sigma \text{the wrath} \). of the Roman people —Tobias Smollett) 2: to express disapproval of 3 a: PLAY DOWN: make little of (speaks five languages ... but \sigma's this facility —Time) b: BELITTIE, DISPARAGE (the most reluctantly admired and least easily deprecated of ... novelists —New Yorker) — dep-re-cat-ing-ly \-,kā-tip-lè\ adv — dep-re-cat-on-j-kā-shan\ n dep-re-cat-on-j-kā-shan\ n dep-re-cat-on-j-kā-shan\ n dep-re-cat-on-j-kā-shan\ n dep-re-cat-on-j-kā-torde-pre-ci-a-tor \-she-i-tor\ n -- de-pre-cia-to-ry \-sho-itor-e.

dep-re-date \'de-pro-dat\ vb -dat-ed; -dat-ing [LL depraedatus, pp. of deprocase \ oc-pro-dat\ vo -ant-ed; "uni-ling | L. deprocasius, pp. or deprocasius, fr. L. de- + praedari to plunder -- more at PREV] vt (1626): to lay waste: PLUNDER, RAVAGE ~ wi; to engage in plunder -- depre-da-tion \, de-pro-di-tor, \, de-pro-di-tor, \, de-pro-di-tor, \, de-pro-da-tor, \, de-pro

de-press \di-pres. de-\ vi [ME, ir. MF depresser, fr. L depressus, pp. of deprimere to press down, ir. de- + premere to press — more at PRESS] (14c) 1 obs: REPRESS, SUBPUGATE 2 2: to press down (~ a type-

deprimere to press down, ir. de + premere to press — more at PRESS]
(14c) 1 obs: REPRESS, SUARUGATE 2 a: to press down (~ a typewriter key) b: to cause to sink to a lower position 3: to leasen the
activity or strength of 4: \$ADDEN, DISCOURAGE 5: to decrease the
market value or marketability of — de-press-lible \-[press-bal\] adj
depress-sant \di-[pre-s]nt, de\] n (1876): one that depresses; specif
: an agent that reduces a bodily functional activity or an instinctive
desire (as apperite) — depressant adj
depressed adj (1621) 1: low in spirits: \$AD: esp: affected by psychological depression 2 a: vertically flattened (a ~ cactus) b
: having the central part lower than the margin e: lying flat or prostrats d: dorsoventrally flattened 3: suffering from economic depression; esp: UNDERPRIVILEGED 4: being below the standard
apression (a ~ story) — de-press-ing-ly \-[nsin-le\] adir
depression (a ~ story) — de-press-ing-ly \-[nsin-le\] adir
depression (a ~ story) — de-press-ing-ly \-[nsin-le\] adir
depression \(\frac{1}{2} \): an act of depressing or a state of being depressed: as a: a
pressing down: Lowering b (i): a state of feeling sad: Defection
(2): a psychoneurotic or psychotic disorder marked esp. by sadness,
inactivity, difficulty in thinking and concentration, a significant increase or decrease in appetite and time spent steeping, feelings of depresions and hopelessness; and sometimes sticidal tendencies c (i): a
reduction in activity, amount, quality, or force (2): a lowering of
vitality or functional activity 3: a depressed place or part: HOLLOW
by fising levels of unemployment
Depression glass n [Grest Depression of 1929 to ca. 1939] (1971)
tintog glassware machine-produced during the 1930s

depressive-ly adv

depressive-ly adv lepressive n (1937); one who is affected with or prone to psychologi-

depressive n (1937): one who is affected with or prone to psychological depression

appressor \di-\text{pre-sor}, d\(\bar{e}\)\ n [LL. \(\text{fr.}\)\ L \(\text{deprimere}\) (1611): one that depresses: as a: a muscle that draws down a part — compare LEVA.

Tor. b: a device for pressing down or aside c: a nerve or nerve fiber that decreases the activity or the tone of the organ or part it innervates the decreases the activity or the tone of the organ or part it innervates the decreases the activity or the tone of the organ or part it innervates the decreases the activity or the tone of the organ or part it innervates the decreases the activity or the tone of the organ or part it innervates the decreases the activity or the tone of the organ or part it innervates the depression of the organ or part it innervates the depression of the organ or part it innervates the depression of the depression of the organ or part it innervates the deprive of the deprive or instance of depriving: Loss

applies 2: an act or instance of depriving: Loss

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applies 2: an act or instance of depriving: Loss

applies 4: the deprive of deprive of the organ of the

of field (1911): the range of distances of the object in front of field (1911): an image-forming device (as a camera lens) measured along the axis of the device throughout which the image has acceptable sharpness of the device throughout which the image has acceptable sharpness of the device throughout which the image has acceptable sharpness of the device throughout which the image has acceptable sharpness of the device throughout which the image has acceptable sharpness of the device throughout which the image has acceptable sharpness of the objects and the spatial relationship of objects at different distances depth psychology n (1924): PSYCHOANALYSIS also: psychology concerned esp. with the unconscious mind dep-u-ta-tion \de-py-'ta-shon\ n (14c) 1: the act of appointing a

deput-ta-tion \de-pya-'tā-shan\ n (14c) I: the act of appointing a deputy 2: a group of people appointed to represent others de-pute \di-pyii\ v de-put-ed; de-put-ing [ME, to appoint, fr. MF deputer, fr. LL deputare to assign, fr. L, to consider (as), fr. de-putare to consider—more at PAVE (14c): DELEGATE deputare \de-put-tize \de-pya-tiz\ vb -tized; -tiz-ing vi (ca. 1736): to appoint as deputy ~ vi: to act as deputy — dep-u-ti-za-tion \de-pya-ta-'zā-chan\ n

deputy \'de-pya-te\ n. pl -ties [ME, fr. MF deputé, pp. of deputer] (13c) 1 a: a person appointed as a substitute with power to act b: a second in command or assistant who usu, takes charge when his or her superior is absent 2: a member of the lower house of some legis-

de-rail-leur \di-'rā-lər\ n [F dérailleur, fr. dérailler] (1930) : a mechanism for shifting gears on a bicycle that operates by moving the chain

nism for shifting gears on a bicycle that operates by moving the chain from one set of exposed gears to another de-range \di-ran\) w de-ranged; de-rang-ing [F déranger, fr. OF desrengier, fr. de-de- + reng line, row — more at RANK] (1776) 1: to disturb the operation or functions of 2: DISARRANGE (hatless, with tie deranged —G. W. Stonier) 3: to make insane — de-range-ment

\-mant\ n de-rate \(\),\\\ d\'earth\ \(\) (1947): to lower the rated capability of (as electrical or mechanical apparatus) because of deterioration or inadequacy der-by \(\)'dor-b\'earth\ earth of Derby \(\) (1844) 1: any of several horse races held annually and usu, restricted to three-year-olds 2: a race or contest open to all comers or to a specified category of contestants (bicycle \(\times\)) 3: a man's stiff felt hat with dome-shaped crown and narrow brim de-re-al-iza-tion \(\)\(\)(\),\(\)\d\'earth\ earth\ ea

altered reality that occurs often in schizophrenia and in some drug

de-regula-tion \(\)\de-re-gys-lä-shan\ n (1963): the act or process of removing restrictions and regulations — de-reg-u-late \(\)'\de-'re-gys-

\a\ abut \^\ kitten, F table \ar\ further \a\ ash \ā\ ace \ā\ mop, mar \ait\ out \ch\ chin \c\ bet \c\ ensy \g\ go \i\ hit \I\ ice \i\ job \n/ sing \o'\ go \o'\ law \oi\ boy \th\ thin \th\ the \ii\ loet \ii\ foet \y\ yet \zh\ vision \a, k, ", oe, de, ue, \overline{ue}, "\ see Guide to Pronunciation

deriver • desert 312

the derivation of ~ vi: to have or take origin: come as a derivative syn see spring — de-river n

derm- or derma- or dermo- comb form [NL, fr. Gk derm-, dermo-, fr. derma, fr. derein to skin — more at TEAR]: skin (dermal)
-derm \derm\ n comb form [prob. fr. F -derme, fr. Gk derma]: skin

: covering (ectoderm)
der-ma \'dor-ma\ n comb form, pl -der-mas or -der-ma-ta \-ma-ta\
[NL, fr. Gk dermat-, derma skin]: skin or skin ailment of a (specified)

type (scieroderma) derm-abra-sion \dor-mo-bri-zhon\ n (ca. 1954) : surgical removal of skin blemishes or imperfections (as scars or tattoos) by abrasion (as

with sandpaper or wire brushes)
der-mal \dər-məl\ adj (ca. 1803) 1: of or relating to skin and esp. to
the dermis: CUTANEOUS 2: EPIDERMAL

the dermis: CUTANEOUS 2: EFIDERMAL dermate or dermate-comb form [Gk, fr. dermate, derma]: skin (dermate-ro dermate-comb form [Gk, fr. dermate, derma]: skin (dermatis) (dermatellege) der-ma-ti-tisk n (1876): inflammation of the skin der-ma-ti-tisk (dermate-gen (der-ma-ti-gis-fiks) n pi but sing or pi in constr [dermate-gen (der-ma-ti-gis-fiks) n pi but sing or pi in constr [dermate- H Ck glyphein to carve + E-ica — more at CLEAVE] (1926) 1: skin patterns; esp: patterns of the specialized skin of the inferior surfaces of the hands and feet 2: the science of the study of skin patterns — der-ma-to-dephylic \-fik\ n (1819): a branch of science dealing with the skin, its structure, functions, and diseases — der-ma-to-log-ic \-ma-ti-fik\ n der-ma-to-log-ical \-ji-k\\ adj — der-ma-to-l

to-mai _dor-ma-'to-mai_adj der-ma-to-phyte \(\),dor-'ma-to-jit, 'dor-mo-\ n [ISV] (1882): a fungus parasitic on the skin or skin derivatives (as hair or nails) der-ma-to-sis _dor-mo-'to-sos\ n, pi -to-sos \-,sēz\ (1866): a disease

der-ma-to-sis \dor-mo-'tō-sos\ n, pl-to-ses \-, sez\ (1800): a disease of the skin
der-ma-tous \'dor-mo-tos\ adj comb form [Gk dermat-, derma skin]: having a (specified) type of skin \(pachydermatous\)
der-mes-tid \(()\dor-'mes-tod\ n [ultim. fr. Gk dermésiés, a leathers eating worm. lit., skin eater, fr. derm- + edmenai to eat — more at EAT] (ca. 1888): any of a family (Dermestidae) of beetles with clubbed antennae that are very destructive to organic material of animal origin (as dried meat, wool, or muscum specimens) — dermestid adj der-mais \'dor-mos\ n [NL, fr. LL -dermit] (ca. 1830): the sensitive vascular inner mesodermic layer of the skin — called also corium, cutis -der-mis \'dor-mos\ n comb form [LL, fr. Gk, fr. derma]: layer of skin or tissue (endodermis)
der-moid cyst \'dor-moid-\ n (1872): a cystic tumor often of the ovary that contains skin and skin derivatives (as hair or teeth) — called also dermoid

der-nier cri \,dern-,yā-krē\ n [F, lit., last cry] (1896) : the newest

fashion

der-o-gate \'der-a-gat\' vb -gat-ed; -gat-ing [ME, fr. LL derogatus, pp. of derogate, fr. L. to annul (a law), detract, fr. de- + rogate to ask, propose (a law) — more at RIOHT] vt (15c): to cause to seem inferior: DISPARAGE — vi 1: to take away a part so as to impair: DETRACT 2: to act beneath one's position or character — der-o-ga-tion \der-o-ga-shon\ n — de-ro-ga-tive \di-'ri-ga-tiv-daj (1503) 1: detracting from the character or standing of something — often used with to, af, or from 2: expressive of a low opinion: DISPARAGING (~ remarks) — de-roga-to-ri-ly \-\risga-'tor-o-le, -'tor-\ adv der-rick \'der-ik\ n [obs. derrick hangman, gallows, fr. Derick, name of 17th cent. Eng. hangman] (ca. 1752) 1: a hoisting apparatus employing a tackle rigged at the end of a beam 2: a framework or tower over a deep drill hole (as of an oil well) for supporting boring tackle or for hoisting and lowering

OF derriere back part, rear, fr. derier, adv., behind, fr. LL deretro, fr. L de from + retro back] (1774)

; BUTIOCKS

der-ring—do \der-in-'dü\ n [ME dorring don daring
to do, fr. dorring (gerund of dorren to dare) + don
to do](1579): daring action: DARING (deeds of ~)
der-rin-ger \'der-on-jor\ n [Henry Deringer †1869
Am. inventor] (1853): a short-barreled pocket
pistol

pistol
der-ris \'der-2s\ n [NL. genus name, fr. Gk, skin, fr.
derein to skin — more at TEAR] (1919) 1: a preparation of derris roots and stems used as an insecticide 2: any of a large genus (Derris) of leguminous tropical Old World shrubs and woody vines including sources of poisons and esp. commercial sources of rotenone der-vish \'dor-vish \ n [Turk dervis, lit., beggar, fr. Per darvish] (1585)
1: a member of a Muslim religious order noted for devotional exercises (as bodily movements leading to a trance) 2: one that whirts or dances with or as if with the abandonment of a dervish des- prefix [F des-, fr. OF des- — more at DE-]: DE-6 — esp. before vowels (desoxy)

vowels (desoxy)
DES \,de-(.)e-'es\ n (1971): DIETHYLSTILBESTROL
de-sa-cral-ize \((.)de-'sa-kro-liz, -'sa-\ vr -ized; -iz-ing (1911): to
divest of sacred qualities — de-sa-cral-iza-tion \((.)de-,sa-kro-li-'za-

divest of sacred quantities—desactal analysis of the control of composing of improving contrapuntal part music; also

the art of composing or improvising contrapuntal part music; also the music so composed or improvised c: SOPRANO, TREBLE d: a

superimposed counterpoint to a simple melody sung typically by some

superimposed counterpoint to a simple melody sung typically by some or all of the sopranos 2: discourse or comment on a theme 'des-cant 'des-kant, des-', dis-', vi (15c) 1: to sing or play a descant broadly: SING 2: COMMENT, DISCOURSE de-scend 'dii-'send, de-\ vb [ME, fr. OF descendre, fr. L descendere, fr. de-+ scandere to climb — more at scan] vi (13c) 1: to pass from a higher place or level to a lower one (~ed from the platform) 2: to pass in discussion from what is logically prior or more comprehensive 3 a: to come down from a stock or source: DERIVE (~s from an old merchant family) b: to pass by inheritance (a desk that has ~ed in the family) c: to pass by transmission (songs ~ed from old ballads) 4: to incline, lead, or extend downward (the road ~s to the river) s a: to swoop or pounce down (as in a sudden attack) b: to appear suddenly and often disconcertingly as if from above (reporters ~ed on the candidate) 6: to proceed in a sequence or gradation from higher to lower or from more remote to nearer or more recent 7 a: to lower oneself in status or dignity: STOOP b: to worsen and sink in condition the candidate) 6: to proceed in a sequence or gradation from higher to lower or from more remote to nearer or more recent 7 a: to lower oneself in status or dignity: stoop b: to worsen and sink in condition or estimation ~ vt 1: to pass, move, or climb down or down along 2: to extend down along — de-scend-ible \-'sen-d-ab|\ adj [MF & L]: MF descendant, fr. L descendent \di-'sen-dant \di-'sen-dant fr. L descendent, descendens, prp. of descendere] (1572) 1: moving or directed downward 2: proceeding from an ancestor or tower.

descendant or descendent n [F & L; F descendant, fr. LL descendent, descendent, fr. L] (1600) 1: one descended from another or from a common stock 2: one deriving directly from a precursor or

de-scend-er \di-'sen-dor, 'dō-\ n (1802): the part of a lowercase letter (as p) that descends below the main body of the letter; also: a letter

that has such a part
de-acea-sion \di-'sen-chon\ n (15c) archaic: DESCENT 2
de-scent \di-'sent\ n [ME, fr. MF descente, fr. OF descendre] (14c) 1 a: derivation from an ancestor: BIRTH. LINEAGE (of French >) transmission or devolution of an estate by inheritance usu, in the descending line e: the fact or process of originating from an ancestral essenting line e : the fact or process of originating from an ancestral stock d: the shaping or development in nature and character by transmission from a source: DERIVATION 2: the act or process of descending 3: a step downward in a scale of gradation; specif: one generation in an ancestral line or genealogical scale 4 a: an inclination downward: SLOPE b: a descending way (as a downgrade or stairway) c obs: the lowest part 5 a: ATTACK, INVASION b: a sudden disconcerting appearance (as for a visit) 6: a downward step (as is station or value): DECLINE (~ of the family to actual poverty) describe (de-scribe (de-scribed; de-scribe (mi-skrib) or de-scribed; de-scribed; de-scriber to write — more at SCRIBE] (15c) 1: to represent or give an account of in words (~ a picture) 2: to represent by a figure, model, or picture: DELINEATE 3 obs: DISTRIBUTE 4: to trace or traverse the outline of (~ a circle) 5 archaic: OBSERVE PERCEIVE — describable \(\frac{1}{2}\)-skrib-b-bol\(\text{adj}\)—de-scriber \(\text{nd}\) discourse intended to give a mental image of something experienced b: a descriptive statement or account 2: kind or character esp. as determined by salient features (opposed to

something experienced b: a descriptive statement or account 2: kind or character esp. as determined by salient features (opposed to any tax of so radical a ~> syn see TYPE descriptive \di-'skriptiv\ adj (1751) 1: serving to describe \(a \) account \(2 \) a: referring to, constituting, or grounded in matter a observation or experience \(\text{(the \$\sigma} \) basis of science \(\text{)} \) b: factually grounded or informative rather than normative, prescriptive, or emotive \(\sigma \) cultural studies \(3 \) of a modifier \(a \): expressing the quality, kind, or condition of what is denoted by the modified term \(\text{(hor in "hot water" is a \$\sigma \) adjective \(\text{)} \) b: NONRESTRICTIVE \(4 \): of, relating to, or water" is a ~ adjective) b: NONRESTRICTIVE 4: of, relating to, or dealing with the structure of a language at a particular time usu, with exclusion of historical and comparative data (~ linguistics) -

descriptor \divskriptor \n (1933): something (as a word or characteristic feature) that serves to describe or identify; esp: a word or phrase (as an index term) used to identify an item (as a subject or documents).

ment) in an information retrieval system ment) in an information retrieval system ide-scry \di-'skri\ vi de-scried; de-scry-ling [ME descrien, fr. MF descrier to proclaim, decry] (14c) 1 a: to catch sight of b: to find out: Discover 2 obs: to make known: REVEAL 2descry n (1605) obs: discovery or view from afar Des-de-mona \decryde-imo-na\ n: the wife of Othello in Shake-

speare's Othello

speare's Othello des-e-crate \(\)'de-si-krāt\\ vi -crat-ed; -crat-ing \(\) \(\) \(\) \(\) des-e-crate \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(

of the members of a particular race in separate units ~ vi: to become desegregated

or hypersensitive individual) insensitive or nonreactive to a sensitizing agent 2: to make emotionally insensitive or callous; specif: to extinguish an emotional response (as of fear, anxiety, or guilt) to stimuli that formerly induced it — desensitization \(\(\(\)_1\)\delta_sen(t)-so-to-7\(\)

formerly induced it — de-sen-si-fi-za-tion \(\,\)de-,sen(t)-so-to-za-shan\(\,n\)—de-sen-si-fizer\(\,\)de-'sen-so-ti-zar\(\,n\)—de-sen-si-fizer\(\,\)de-'sen-so-ti-zar\(\,n\)—de-sen-si-fizer\(\,n\)—de-sen-si-SERIES] (1967) 1 a: and parten land; egg: a tract incapable of supporting any considerable population without an artificial water supply b: an area of water apparently devaid of life 2 archaic: a wild uninhabited and uncultivated tract 3: a desolate or forbidding area (lost in a \sim of doubt) — de-ser-tic \de-'zar-tik\ udj

746 miticidal • mobile

mi-ti-cide \'mi-ta-sid\ n [mite] (ca. 1946): an agent used to kill mites

misticine \ initicisia \ \ misto-sid\ \ adj \ mitti-cid-ak \ \ misto-sid\ \ adj \ mitti-cid-ak \ \ misto-sid\ \ adj \ mitti-cid-ak \ misto-sid\ \ adj \ mitti-cid-ak \ misto-sid\ \ adj

usage Mitigate is sometimes used as an intransitive (followed by against) where militate might be expected. Even though Faulkner used it (some intangible and invisible social force that mitigates against him -William Faulkner) and one critic thinks it should be called an American idiom, it is usu, considered a mistake.

mi-to-tion-dri on \,mi-to-\text{kin-dre-on\ n, pi-dria \-dre-o\ [NL. fr. Gk mitos thread + chondrion, dim. of chondros grain] (1901): any of various round or long cellular organelles of most eukaryotes that are found outside the nucleus, produce energy for the cell through cellular respi-

ration, and are rich in fats, proteins, and enzymes — see CELL illustration — mi-to-chon-dri-ai \-dré-ol\ adj
mi-to-gan \'mi-to-jon\ n [mitosis + -gen] (ca. 1951): a substance that
induces mitosis — mi-to-gen-ic \mi-to-je-nic\ adj — mi-to-ge-nic-i-\-ja-'ni-sa-te\ n

ty \-ja-'ni-sa-te\ n
ml-to-my-cim \mi-to-'mi-a'n\ n [ISV mito- (prob. fr. NL mitosis) +
-mycin] (1956): a complex of antibiotic substances which is produced
by a Japanese streptomyces (Streptomyces caespitosus) and one form of
which acts directly on DNA and shows promise as an anticancer agent
ml-to-sia \mi-'to-sia\ n. pl -to-ses \-, sez\ [NL, fr. Gk mitos thread]
(1887) 1: a process that takes place in the nucleus of a dividing cell
involved twiscally a series of stems consisting of processes metables. involves typically a series of steps consisting of prophase, metaphase, and telophase, and results in the formation of two new nuclei cach having the same number of chromosomes as the parent nucleus—compare MEIOSIS 2: cell division in which mitosis occurs — mi-tot-le—'tik-tik\ adj — mi-tot-le-cal-ly\-ti-k\adj\ ddj — mi-tot-le-cal-ly\-ti-k\adj\ mi-tral\ adj\ (1610) 1: resembling a miter 2: of, relating to, being, or adjoining a mitral valve or orifice mitral\ valve n\ (1705): BICUSPID\ VALVE

mitral valve n (1705): BICUSPID VALVE mitra-wort also sal-ter-wort \mi-tra-wort also sal-ter-wort \mi-tra-wort, -, wort, \n (ca. 1818): any of a genus (Mitella) of rhizomatous perennial herbs of the saxifrage family that bear a capsule resembling a biabop's miter sait \mint n [short for mitten] (1765) 1 a: a woman's glove that leaves the fingers uncovered b: MITTEN I c: a baseball catcher's or first baseman's glove made in the style of a mitten 2 slang: HAND mit-tem \mint-i'n\ n [ME mitaln. fr. MF mitalne. fr. OF, fr. mite mitten] (14c) 1: a covering for the hand and wrist having a separate section for the thumb only 2: MITT la mit-ti-saus \mint-ti-saus \mint-ti-saus \mint-ti-saus \mint-ti-saus \mint-ti-saus \mint-ti-saus \mint-ti-saus \mint-ti-saus \mint-val\ n pl mitz-vath \n\vert voth \mint-val\ mitta-val\ [I-teb mipsidh] (1650) 1: a commandment of the Jewish law 2: a meritorious or charitable act

mentorious of charitable act

imix \miks\ vb [ME, back-formation fr. mixte mixed, fr. MF, fr. L

mixtus, pp. of mixefre to mix; akin to Gk mignynal to mix] w (15c) 1

a (1): to combine or blend into one mass (2): to combine with
another b: to bring into close association (~ business with pleasure)

a: to form by mixing components (~ a drink at the bar) b: to
produce (a sound recording) by electronically combining or adjusting
sounds from more than one source 3: CONPUSE—often used with up

(~est things up in his cagerness to speak out —[rving Howe) ~ w 1

a: to become mixed b: to be capable of mixing 2: to enter into

relations: ASSOCIATE 3: CROSSBREED 4: to become involved: PARficipate (decided not to ~ in politics) — mix-able \mik-so-bol\ adj

mix it up: to engage in a fight, contest, or dispute

sym MIX, MINGLE, COMMINGLE, BLEND, MERGE, COALESCE, AMALGAMATE,

FUSE mean to combine into a more or less uniform whole. MIX may or
may not imply loss of each element's identity (mix the salad greens)

(mix a drink). MINGLE usu, suggests that the elements are still somewhat distinguishable or separately active (fear mingled with anticipa-

may not imply loss of each element's identity (mix the salad greens) (mix a drink). MINOLE usu, suggests that the elements are still somewhat distinguishable or separately active (fear mingled with anticipation in my mind). COMMINOLE implies a closer or more thorough mingling (a sense of duty commingled with a fierce pride drove her). BLEND implies that the elements as such disappear in the resulting mixture (blended several teas to create a balanced flavor). MERGE suggests a combining in which one or more elements are lost in the whole (in his mind reality and fantasy merged). COALESCE implies an affinity in the merging elements and usu. a resulting organic unity (telling details that coalesce into a striking portrait). AMALGAMATE implies the forming of a close union without complete loss of individual identities (refugees who were readily amalgamated into the community). Fuse stresses oneness and indissolubility of the resulting product (a building in which modernism and classicism are fused).

**Imalian n(ca. 1586) 1: an act or process of mixing 2: a product of mixing: as a: a commercially prepared mixture of food ingredients (a cake ~) b: a combination of different kinds (the right ~ of jobs, people and amenities —London Times) 3: MIXER 2b mixed \'mikst\ adj [ME mixte] (15c) 1: combining characteristics of more than one kind; specif: combining features of two or more systems of government (a ~ constitution) 2: made up of or involving individuals or items of more than one kind: as a: made up of or involving persons differing in race, national origin, religion, or class b: made up of or involving individuals of both sexes (~ company) (a ~ school) 3: including or accompanied by inconsistent, incompatible, or contrary elements (~ emotions) (received ~ reviews) (a ~ blessing) 4: deriving from two or more races or breeds (a stallion of ~ blood)

ing) 4: deriving from two or more races or breeds (a \sim bless-blood)

mixed alphabet n (1931); an alphabet (as in a cryptographic system)

that has been rearranged or disordered systematically or randomly mixed bag n (1926): a miscellaneous collection: ASSORTMENT mixed bud n (1900): a bud that produces a branch and leaves as well

mixed drink n (1943): an alcoholic beverage prepared from two or more ingredients mixed farming n (1872); the growing of food or cash crops food mixed grill n (1913): mests (as lamb chop, kidney, and bacon) and vegetables broiled together and served on one plate mixed marriage a (1829): a marriage between persons of different

races or religious mixed media adj (1962): MULTIMEDIA mixed media adj (1962): MULTIMEDIA mixed metaphor n (1800): a figure of speech combining inconsistent

or incongruous metaphors
mixed nerve n (1878): a nerve containing both sensory and motor

mixed number n (1542); a number (as 5%) composed of an integer and a fraction

mixed-up \'mikst-'op\ adj (1862): marked by bewilderment, perplex-

ity, or disorder: CONPUSED mix-or \mik-ser\n (ca. 1611) 1: one that mixes: its n (1): one whose work is mixing the ingredients of a product (2); one who balances and controls the dialogue, music, and sound effects to be recorded for or with a motion picture or television b: a container, device, or machine for mixing e: a game, stunt, or dance used at a get-together to give members of the group an opportunity to meet one another in a friendly and informal atmosphere 2: one that mixes with others: as a: a person considered in regard to casual sociability (was shy and a poor ~) b: a nonalcoholic beverage (as ginger ale) used in a mixed drink

a mixed drink maix-ol-o-gy \mik-\si-lo-je\ n (1948): the art or skill of preparing mixed drinks — mix-ol-o-glat \-jist\ n Mix-tee \mis-\text{tek}, mis-, mish-\ n, pl Mixtee or Mixtees [AmerSp mixteeo] (1850) 1: the language of the Mixtee people 2: a member of an American Indian people of the state of Oaxaca, Mexico mix-ture \\mis-\text{mik}-\text{chor\} n [ME, fr. OF mixture, fr. L mixture, fr. mixture] (15c) 1 a: the act, the process, or an instance of mixing b (1): the state of being mixed (2): the relative proportions of constituents; esp: the proportion of fuel to air produced in a carburetor 2: a product of mixing: COMBINATION as a: a portion of matter consisting of two or more components in varying proportions that retain their own properties b: a fabric woven of variously colored threads e: a combination of several different kinds mix-up \\miks-pp\ n (1841) 1: a state or instance of confusions 2

mix-up \miks-pp\ n (1841) 1: a state or instance of confusion 2: MIXTURE 3: CONFLICT. FIGHT

: MIXTURE 3: CONFLICT. FIGHT

'miz-zen also miz-en \'mi-z'n\ n [ME meson, [r. MF misaine foremast
sail, prob. ultim. fr. L medianus of the middle — more at MEDIAN] (15c)

1: a fore-and-aft sail set on the mizzenmast 2: MIZZENMAST

'miz-zen-mast \-mast, -most\ n (15c): the mast aft or next aft of the

miz-zen-mast \-mast, -most\ n (15c): the mast aft or next aft of the

mazezem-mass \-mast, -mast\ n (15c): the mast aft or next aft of the mainmast in a ship 'mizele\'mizel

'miz-iè\ adj
'miz-iè\ adj
'miz-iè\ adj
'miz-iè\ di miz-zled; miz-zling \'mi-z-lin, 'miz-lin\ [origin unknown]
(1781) chiefly Brit: to depart suddenly
'man-mon-le\ \ni-'min-nik\ adj [Ok mnémonikos, fr. mnémon mindful,
fr. minnéskesthai to remember — more at MIND] (1753) 1: assisting
or intended to assist memory; also : of or relating to mnemons. 2
: of or relating to memory — mne-mons-i-cal-ly \-ni-k(2-)iè\ adv
'mne-monic n (1858): a mnemonic device or code
smal-man-male \ni-'mi-nik\ n of but sing in constr (cs. 1721); a tech-

mne-monics \ni-mis-niks\n pl but sing in constr (ca. 1721): a technique of improving the memory

Mne-mos-y-ne \ni-\mis-\n-\epsilon - x\n-\ n [L, fr. Gk Mnemosyne]: the
Greek goddess of memory and mother of the Muses by Zeus

-mo n suffix [duodecimo] ---- after numerals or their names to indicate
the number of laws made by felding a shape of page (internal)

the number of leaves made by folding a sheet of paper (sixteenmo)

stos 'mō-ɔ\ n [Maori] (1842): any of various usu, very large extinct flightless birds of New Zealand of a ratite family (Dinornithidae) in-

Iligatiess birds of New Zealand of a ratte family (Dinornithidae) in-cluding one (Dinornis gigantrus) about 12 feet (3.7 meters) in height Mosab-ita \mod-2-bit\ n [ME, fr. LL Moubita, Moubites, fr. Gk Modb-itës, fr. Möab Mosb, ancient kingdom in Syria] (14c): a member of an ancient Semitic people related to the Hebrews — Mosabite or Mosab-

trish \-;bl-tish adj

trish \-;bl-tish adj

meosa \mon\ n [ME mone fr. (assumed) OE man] (13c) 1: LAMENTATION, COMPLAINT 2: a low prolonged sound of pain or of grief

mons w (14c) 1: to bewail audibly: LAMENT 2: to utter with

mons w 1: LAMENT, COMPLAIN 2 a: to make a moon: GROAN

mons w 1: LAMENT, COMPLAIN 2 a: to make a moon complain the trees) w b: to emit a sound resembling a moan (the wind ~ed in the trees) mont \mot\ n [ME mote, prob. fr. MF motte hill, mound] (14c) 1: a

most \('mo\) n [ME mote, prob. fr. MF motte hill, mound] (14c) 1: a deep and wide trench around the rampart of a fortified place (as a castle) that is usu. filled with water 2: a channel resembling a moat (as about a seamount or for confinement of animals in a zoo) — moat-ed \'mo-tod\ adj — moat-like \-jik\ adj \'mob\ n [L mobile vulgus vacillating crowd] (1688) 1: a large or disorderly crowd; exp: one bent on riotous or destructive action 2: the lower classes of a community: MASSES, RABBLE 3 chiefly Austral: a flock, drove, or herd of animals 4: a criminal set: GANG: exp, often cup: MAFIA 1 5 chiefly Brit: a group of people: CROWD sym see CROWD — mob-bish \'mā-bish\ adj \'mab vi mobbed; mob-bing (1709) 1: to crowd about and attack or annoy (mobbed by autograph hunters) (a crow mobbed by songbirds) 2: to crowd into or around (customers — the stores on sale days) mob-cap \'mab_kap\ n [mob woman's cap + cap] (1795): a woman's fancy indoor cap made with a high full crown and often tied under the chin

mo-be pearl or mo-be pearl \'mo-ba-, .mo-\ n. often cap M [origin

mo-be pearl or mo-be pearl \'mo-ibe., mo-\\ n, often cap M [origin unknown] (1955): MABE | mo-bile \'mo-bile \'mo-bi

356 druggist • drystone

drug-gist \'dra-gist\ n (1611): one who sells or dispenses drugs and medicines: as a: PHARMACIST b: one who owns or manages a drug-

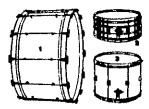
drug-mak-er \'drog-mä-kor\ n (1964); one that manufactures phar-

drug-store \-,stör, -,stór\ n (1810): a retail store where medicines and

miscellaneous articles are sold: PHARMACY
drugstore cowboy n (1925) 1: one who wears cowboy clothes but
has had no experience as a cowboy 2; one who loafs on street corners

has had no experience as a cowboy 2: one who loafs on street corners and in drugstores dru-id \'dr\u00fc-id\u00e4n, often cap [L druides, druidae, pl., fr. Gaulish druides; akin to OIr drui druid, and perh. to OE tr\u00e5ow tree] (1563): one of an ancient Celtic priesthood appearing in Irish and Welsh sagan and Christian legends as magicians and wizards — dru-id-ic \dr\u00e4-'-dik\ or dru-id-ical \\-di-k\u00e3\u00e4 adj. often cap dru-id-ical \\-di-k\u00e3\u00e4 adj. often cap (1715): the system of religion, philosophy, and instruction of the druids \\'dr\u00e4n\u00e4 n [prob. fr. D trom; akin to MHG trumme drum] (1519)

skin to MHG trumme drum] (1539) 1: a percussion instrument consist-ing of a hollow shell or cylinder with a drumhead stretched over one or both ends that is beaten with the both ends that is beaten with the hands or with some implement (as a stick or wire brush) 2: TYMPANIC MEMBRANE 3: the sound of a drum; also: a sound similar to that of a drum 4: any of various bony fishes (family Sciaenidae) that make a drumming noise 5: something resembling a drum in shape: as a: a cylindrical machine or mechanical device or part b: a cylindrical container: specif: a large usu, metal contrainer: specif: a large usu, metal contrainer:



drum 1: / bass, 2 snare (orchestra), 3 snare (parade)

tainer; specif: a large usu. metal container for liquida (a 55-gallon ~) c: a disk-shaped magazine for an automatic weapon — drum-like

c: a disk-shaped magazine for an automatic weapon — drum-like _ilk\ adj

drum vb drummed; drum-ming w (1583) 1: to make a succession of strokes or vibrations that produce sounds like drumbeats 2: to beat a drum 3: to throb or sound rhythmically 4: to stir up interest: SOLICIT ~ vt 1: to summon or enlist by or as if by beating a drum (were drummed into service) 2: to dismiss ignominiously: expet—usu, used with out 3: to drive or force by steady effort or reiteration (drummed the speech into her head) 4 a: to strike or tap repeatedly b: to produce (rhythmic sounds) by such action drum n [ScGael druim back, ridge, fr. Olr druimm] (1725) 1 chiefly Scot: a long narrow hill or ridge 2: DRUMLIN drum-beat \'drom-bet\ n (1855) 1: a stroke on a drum or its sound; also: a series of such strokes 2: vociferous advocacy of a cause 3: DRUMFIRE 2 — drum-beat-er \-bō-tor\ n — drum-beat-ing \-tip\ n drum brake n (1950): a brake that operates by the friction of usu, a pair of shoes pressing against the inner surface of the cylinder of a rotating drum — compare DISC BRAKE

pair of shoes pressing against the inner surface of the cylinder of a rotating drum—compare DISC BRAKE drams-fire \'dram-fir\ n (1916) 1: artillery firing so continuous as to sound like a drumroll 2: something suggestive of drumfire in intensity: aarkaGE(a ~ of publicity) drum-bead _hed\ n (1622) 1: the material (as skin or plastic) stretched over one or both ends of a drum 2: the top of a capstan that is pierced with sockets for the levers used in turning it drumbead court-marrial n [fr. the use of a drumhead as a table] (1835): a summary court-marrial that tries offenses on the battlefield drum-lin \'drom-lon\ n [ir drum back, ridge (fr. Oir drumm) + E-lin (alter. of -ling) [ca. 1833): an elongate or oval hill of glacial drift drum major n (1844): the leader of a marching band drum ma-for-ette \drom-ma-ja-'ret\ n (1938) 1: a girl or woman who leads a marching band 2: a baton twirler who accompanies a marching band

marching band

Irums-meet \'dra-mor\ n (1580) 1 a : one that plays a drum b — used figuratively in expressions denoting an unconventional way of behaving or thinking (march to a different ~) 2 : TRAVELING SALES-

MAN
drum-roll \'drom-rôl\ n (1887): a roll on a drum or its sound
drum-atick \-,stik\ n (1589) 1: a stick for beating a drum 2: the
segment of a fowl's leg between the thigh and tarsus
drum up vt (1830) 1: to bring about by persistent effort (drum up
some business) 2: INVENT, ORIGINATE (drum up a new method)
'drumk post part of DRINK
'drumk \'drank\ adf [ME drunke, alter. of drunken] (14c) 1 a: having the faculties impaired by alcohol b: having a level of alcohol in
the blood that exceeds a maximum prescribed by law (legally ~) 2
: dominated by an intense feeling (~ with rage) 3: of, relating to, or
caused by intoxication: DRUNKEN

: dominated by an intense feeling (~ with rage) 3: of, relating to, or caused by intoxication: DRUNKEN
'drunk n (1779) 1: a period of drinking to intoxication or of being intoxicated (a 2-day ~) 2: one who is drunk; esp: DRUNKARD drunk-en \drunk-en\drunk-

dru-pa-ceous \drii-'pā-shos\ adj (1822) 1: of or relating to a drupe 2: bearing drupes drupes \driu-pa-ceous \driu-pā-shos\ adj (1822) 1: of or relating to a drupe 2: bearing drupes \drupe \drupe \drupe \drupe \n \{\text{NL drupa, fr. L. overripe olive, fr. Gk dryppa olive} \{ca. 1753): a one-seeded indehiscent fruit having a hard bony endocarp, a fleshy mesocarp, and a thin exocarp that is flexible (as in the cherry) or dry and almost leathery (as in the almond) \driun-flexible \driun-fle

drupe-let \dri-plot\ n (1880): a small drupe; specif: one of the individual parts of an aggregate fruit (as the raspberry)

druth-ern \'dro-thorz\ n pl [druther, alter, of would rather] (1875) dial free choice: PREFERENCE - used esp. in the phrase if one had one's

Druze or Druse \'drüz\ n, pl Druze or Druzes or Druse or Druses

often attrib [Ar Duruz, pl., fr. Muhammed ibn-Isma'ti al-Duruz/y †1019 Muslim religious leader] (1786): a member of a religious sect originat-ing among Muslims and centered in the mountains of Lebanon and

Muslim religious leader] (1786): a member of a religious sect originating among Muslims and centered in the mountains of Lebanon and Syria dry \dri\ adj dri-er also dry-er \\dri\-or\; dri-est also dry-est \\dri\-or\; [ME, fr. OE drpe: akin to OHG truckan dry, OE drahnian to drain] (bef. 12c) 1 a: free or relatively free from a liquid and esp. water b: not being in or under water \(\sim \) land c: lacking precipitation or humidity \(\sim \) cilmate\) 2 a: characterized by exhaustion of a supply of liquid \(a \sim well\) b: devoid of running water \(a \sim \) ravine\(c \): devoid of natural moisture \((my \) throat was \(\sim \) d: no longer sticky or damp (the paint is \(\sim \) e: not giving milk \(a \sim \) cow\) f: lacking freshness: STALE g: ANHYDROUS 3 a: marked by the absence of scantiness of secretions \(a \sim \) cough\) b: not shedding or accompanied by tears \((a \sim \) sob\) 4 obs: involving no bloodshed or drowning (I would fain die a \sim \) death \(-\) Shak.) 5 a: marked by the absence of alcoholic beverages \(a \sim \) parholic beverages \(6 : \) served or eaten without butter or margarine \((\sim \) total\(1 \) a: lacking sweetness: SEC \(\sim \) champagne\() b: having all or most sugar fermented to alcohol \(a \sim \) wine\(\sim \) bery bery \(b : \) prohibiting the manufacture or distribution of alcoholic beverages \(6 : \) served or eaten without butter or margarine \((\sim \) total\(1 \) a: lacking sweetness: SEC \(\sim \) champagne\(b : \) having all or most sugar fermented to alcohol \(a \sim \) wine\(\sim \) bery reduced to powder or flakes: DEHYDRATED \(\sim \) milki \(9 : \) functioning without lubrication \((\sim \sim \) gasoline\(1 : \) requiring no liquid in preparation or operation \((\sim \sim \) parting no liquid in preparation or operation \((\sim \sim \) parting no liquid in preparation or operation \((\sim \sim \) parting no liquid in preparation or operation \((\sim \sim \) parting no liquid in preparation or operation \((\sim \) without

dry cell n (1893): a voltaic cell whose contents are not spillater called also dry battery dry-cleam \dry-cleam \dri-klën\ w (1817): to subject to dry cleaning \sim wi: to undergo dry cleaning \sim dry-clean-able \-klë-no-bol\ adj dry cleaning n (1897): one whose business is dry cleaning n (1897): the cleaning of fabrics with substantially nonaqueous organic solvents: 2: something that is dry-cleaned dry-dock \dri-dik\ w (1884): to place in a dry dock dry dock n (cs. 1627): a dock that can be kept dry for use during the construction or repairing of shipe newser war of DRIER

construction or repairing or anipularly error of DRIER dry-eyed \dri-id\ adj (1667) 1: not moved to tears or to empathy 2: marked by the absence of sentimentalism or romanticism dry farming n (1878): farming on nonirrigated land with little rainfall that relies on moisture-conserving tillage and drought-resistant crops dry farm n — dry-farm n — dry farmer n dry farme

dry goods \'dri-,gudz\ n pl (1657) : textiles, ready-to-wear clothing.

dry goode \dri-gudz\ n pl (1657): textiles, ready-to-wear clothing, and notions as distinguished esp. from hardware and groceries dry hole n (1883): a well (as for gas or oil) that proves unproductive dry ica n (1925): solidified carbon dioxide drying oil n (ca. 1865): an oil (as linseed oil) that changes readily to a hard tough elastic substance when exposed in a thin film to air dry-land \dri-land\ adj (1893): of, relating to, or being a relatively arid region (a ~ wheat state); also: of, scapted to, practicing, or being agricultural methods (as dry farming) suited to such a region dry-lot \dri-lat\ n (1924): an enclosure of limited size usu, bare of vegetation and used for fattening livestock dry measure n (1688): a series of units of canacity for dry commodiatry measure n (1688): a series of units of canacity for dry commodia

dry measure n (1688): a series of units of capacity for dry commodities—see METRIC SYSTEM table, WEIGHT table
dry mop n (1933): a long-handled mop for dusting floors
dry-marse n (1581) 1: to act as dry nurse to 2: to give unneces-

sary supervision to dry nurse n (1598): a nurse who takes care of but does not breast-feed

another woman's beby

another woman's baby dryo-pitha-sin\ n [ultim. Ir. Gk drys tree + pith-ckos ape] (1948): any of a subfamily (Dryopithecinae) of Miocene and Piiocene Old World anthropoid apea sometimes regarded as ancestors of both man and modern anthropoids — dryopithecine odj dry out w (1892): to undergo an extended period of withdrawal from alcohol or drug use esp. at a special clinic dry-polat \'dri-point\ n (1883): an engraving made with a steel or jeweled point directly into the metal plate without the use of acid as in etching; also: a print made from such an engraving dry-rot w (1870): to affect with dry rot ~ vi: to become affected with dry rot

with dry rot

with dry rot of (1795) 1 a: a decay of seasoned timber caused by fungithat consume the cellulose of wood leaving a soft skeleton which is readily reduced to powder b: a fungal rot of plant tissue in which the affected areas are dry and often firmer than normal or more or less mummified 2: a fungus causing dry rot 3: decay from within caused esp. by resistance to new forces dry run n (ca. 1941) 1: a practice exercise: REHEARSAL FRIAL 2: a

dry rum n (ca. 1941) a: a practice exercise: REHEARSAL, IRIAL A. a practice firing without ammunition dry-salt-er \dri-sol-ter\n (1707) Brit: a dealer in crude dry chemicals and dyes — dry-salt-ery \-to-re\n. Brit dry-salod \dry-sald adj (15c): having dry shoes or feet dry sink n (1951): a wooden cabinet with a tray top for holding a manufacture.

wash basin dry-stone \'dri-ston\ adj (ca. 1702) chiefly Brit: constructed of stone without the use of mortar as an adhesive (a ~ wall)

EXHIBIT 19



CERTIFICATE OF ANALYSIS

CCX REDUCED FAT 12% POLYPHENOLS

Lot Nº :

L01251

Onte of production: Data of analysis:

20/12/05 10/04/04

Analysis No

Shall life: Cortificate date:

12/2007

Results

60 %

71.8 %

178%

as clud

ABSENT

AGSENT

ABSIDNT

< 100 C.F.U./G

06/05/04

Parameters

Description

Contract No.

Bolanical name Part of plant scott

Colour

Appearance

Physicochemical profile

COACA) grayto no accal Fall content (ACAC)

PH (ADAC)

Nutritional profile

Total polyphenole (catachia) (UV-Vis)

Microbiological profile

Total viable seroble court (AOAC)

Yearth and moulds (AOAC)

Enlerobacteriscess (AOAC)

E CORP (NONC)

Selmonetta / 25g (AOAG)

Suggested storage conditions

Slorage

Shell Mo

Specifications

ТНЕОВПОМА САСЛО

COCOA NEE

DROWN-VIOLEY

POWDER

<= 0.0 %

15.0 - 12.0%

50 . ZA

>= 120%

<= 5,000 c.Lu./g

وليداره 100 د->

en 10 c Lub

ABSENT

AGSENT

STORE FROM 4 TO 2010 IN ORIGINAL SEALED PACKAGE

AVOID EDIPOSIURE TO LIGHT, HEAT AND AIR

EVICATION SURGESTED STORAGE CONDITIONS

Approved by:

Quality Control Dbt.

Quality Control Manager

Signatura:



EXHIBIT 20

UNITED STATES DISTRICT COURT DISTRICT OF NEW JERSEY

John M. Agnello Melissa E. Flax CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI, STEWART & OLSTEIN 5 Becker Farm Rd. Roseland, NJ 07068 Telephone: 973.994.1700 Facsimile: 973.994.1744

Kenneth J. Jurek Daniel N. Christus Linda A.O. Lamberson McDermott Will & Emery LLP 227 West Monroe Street, Suite 4400 Chicago, Illinois 60606-5096 Telephone: 312.372.2000 Facsimile: 312.984.7700

ATTORNEYS FOR MARS, INC.

MARS, INC.,))
Plaintiff,) Civil Action No. 2:07-CV-1574 (SRC)(MF)
vs.))
NATRACEUTICAL, S.A., NATRA U.S., INC.	 DECLARATION OF JOHN F. HAMMERSTONE, JR. IN SUPPORT OF PLAINTIFF MARS'
Defendants.) APPLICATION FOR AN ORDER TO SHOW CAUSE FOR PRELIMINARY INJUNCTION

- I, John F. Hammerstone Jr., declare as follows:
- I have been employed by Mars, Inc. since 1982. I am currently employed in the 1. Mars Symbioscience business as its Senior Research Manager, and have been employed in this capacity since 2005.

- Previously, from 1982-2005, I was employed in the MasterFoods USA business, 2. first as a research assistant, and later as a Senior Research Chemist.
- My educational background is as follows: In 1980, I received a Bachelor of 3. Science Degree in Chemistry from Desales University in Center Valley, Pennsylvania. I have been the author or co-author of several scientific articles, including over 16 relating to the analysis of cocoa, including the identification and quantification of cocoa polyphenols.
- I have personal knowledge of the following facts and, if called as a witness, could and would competently testify as to the following.
- I am an inventor or co-inventor on over 20 issued U.S. patents and several more 5. patent applications, including both of the patents being asserted in this action, United States Patent Nos. 6,790,966 ("the '966 patent") and 6,312,753 ("the '753 patent").
- 6. These patents relate to products made from cocoa beans, such as extracts and powders. The products made from cocoa beans are typically in a solid or powder form, but may also be in a liquid form.
- Some of the claims of these patents relate to the preservation or extraction of 7. certain compounds found in cocoa beans. These compounds are known as cocoa polyphenols, and more specifically, as defined in the '753 patent, procyanidins. The cocoa polyphenols found in the cocoa bean can include monomers and oligomers. The monomers can include catechins and epicatechins. The oligomers can include dimers, trimers, tetramers, pentamers, hexamers, heptamers, octamers, nonamers, decamers, undecamers, and dodecamers.
- The extracts and cocoa powders are used, for example, as additives for food 8. products, and to provide food products with enhanced health benefits.

- 9. In early February, 2007, I obtained Natraceutical's CocoanOX products, including CocoanOX 12 and CocoanOX 45. Each of these products was in a twenty-five kilogram quantity, and was packaged in either a barrel or a box. Each was in a dry powder form. Each of these products included documentation, labeling, and/or a Material Safety Data Sheet, indicating that its source was Natraceutical.
- I was asked by Mars, Incorporated to analyze these CocoanOX 12 and CocoanOX 10. 45 products for cocoa polyphenols and other components.
- One of the methods of cocoa polyphenol analysis that I used was a method that I 11. invented, and that was described in a 1999 publication, Adamson et al., HPLC Method for the Quantification of Procyanidins in Cocoa and Chocolate Samples and the Correlation to Total Antioxidant Capacity. J. Agric. Food Chem., 1999, 47 [10]: 4184-8. As of April 2, 2007, this method has been cited in at least one-hundred and twenty (120) publications relating to the analysis of flavanols and procyanidins. Moreover, this method has been accepted as the official quantification process of these compounds by the U.S. Department of Agriculture. It is regarded by those in the industry as authoritative and accurate. According to the above process, subsamples or aliquots of the CocoanOX 12 and CocoanOX 45 products were reconstituted in an acetone buffer. The buffered samples were analyzed by normal phase high performance liquid chromatography (HPLC) techniques, as published by Adamson et al, 1999.
- Specifically, the reconstituted sample is pumped through a chromatographic 12. column. The retention time of a particular compound is the time at which the compound elutes, or comes out of the end of the column. Each cocoa polyphenol compound elutes at a characteristic retention time. As the compound elutes, it is detected by a fluorescence detector and creates a peak on a graph.

- The results of these analyses for CocoanOX 12 and 45 are shown in the attached 13. Exhibits 1 and 2, respectively. The peaks have been labeled to correspond to the particular cocoa polyphenol indicated as being present and quantifiable.
- These analyses clearly demonstrate, for both CocoanOX 12 and CocoanOX 45, 14. the presence of cocoa polyphenols, including monomers and procyanidin oligomers. The monomer peaks are consistent with the presence of both epicatechins and catechins. The oligomer peaks are consistent with the presence of dimers, trimers, tetramers, pentamers, hexamers, heptamers, octamers, nonamers, and decamers. The reason for my conclusion is that I compared the HPLC trace of the CocoanOX products with a reference standard of cocoa procyanidins. The comparison demonstrated that the sample contained each of the above monomers and oligomers.
- I have measured the amount of total cocoa procyanidins, or cocoa polyphenols, in 15. the CocoanOX 12 sample. In addition, I have measured the amount of cocoa procyanidin pentamer in the CocoanOX 12 sample. Specifically, I measured the area under each peak that corresponded to the procyanidin compounds in the reconstituted sample of CocoanOX 12 and measured the amounts against an external standard of epicatechin, as disclosed in the '753 patent.
- 16. Claim 15 of the '753 patent requires in excess of 50,000 micrograms of total cocoa procyanidin per gram of nonfat cocoa solids.
- Claim 16 of the '753 patent requires in excess of 5,000 micrograms of total cocoa 17. procyanidin pentamer per gram of nonfat cocoa solids.
- 18. In view of the phrase in these claims, "per gram of nonfat cocoa solids," it is necessary to remove the fat content from the sample. Therefore, I obtained the total cocoa

procyanidins by adding the amounts of all procyanidin compounds in the sample of CocoanOX 12 and adjusting for the fat content of CocoanOX 12. Further, I obtained the total procyanidin pentamer by measuring the procyanidin pentamer peak and adjusting for the fat content of CocoanOX 12. The fat content of CocoanOX 12 is about 11%. See infra, ¶¶43-44. Exhibit 3 shows the measured amounts of procyanidin compounds in the reconstituted sample of CocoanOX 12.

- I have concluded that the total amount of cocoa procyanadin per gram of nonfat 19. cocoa solids in CocoanOX 12 is 77,000 micrograms.
- I have concluded that the total amount of cocoa procyanadin pentamer per gram 20. of nonfat cocoa solids in CocoanOX 12 is 5,500 micrograms.
- Another analytical method that I used was a modification of a method that I also 21. co-authored, and that was described in a 2006 publication, Kelm et al., Purification of Cacao (Theobroma cacao L.) Procyanidins According to Degree of Polymerization using a Diol Stationary Phase. J. Agric. Food Chem., 2006, 54, 1571-6. The modification consisted of using a faster solvent gradient, and the use of both UV detection and mass spectrometry for identification of the eluted compounds. I used this method for the identification of certain procyanidin oligomers, namely undecamers and dodecamers within the CocoanOX products. According to this process, subsamples or aliquots of the CocoanOX 45 sample were reconstituted in methanol. The reconstituted sample was fractionated on a Sephadex LH-20 HPLC column to enrich the oligomers so that the compounds could be more easily detected by mass spectrometry. A subsample or aliquot of CocoanOX 12 was extracted with a highly concentrated acetone buffer. The extracted CocoanOX 12 sample and the fractionated sample of

CocoanOX 45 were analyzed by normal phase HPLC techniques, as published by Kelm et al., 2006.

- Specifically, the extracted CocoanOX 12 sample and the CocoanOX 45 fractions collected from the Sephadex LH-20 HPLC column were injected into a normal phase HPLC column for separation and identification of the compounds contained therein. The compounds separated by pumping solvent through the column. Each compound eluted at a characteristic retention time and was detected by UV detection. As each compound eluted from the column, it entered the mass spectrometer where it was ionized and its mass was measured as a ratio of the actual mass of the compound divided by the number of charges on the compound, according to another analytical method that I co-invented, and that was described in a 1999 publication, Hammerstone et al., Identification of Procyanidins in Cocoa (*Theobroma cacao*) and Chocolate using High Performance Liquid Chromatography/Mass Spectrometry, *J. Agric. Food Chem.* 1999, 47, 490-6.
- 23. The results of these analyses for the CocoanOX 12 and 45 fractions are shown in the attached Exhibits 4 and 5, respectively. These analyses clearly demonstrate the presence of procyanidin oligomers known as undecamers and dodecamers in the CocoanOX 12 and 45 products. The basis for my conclusion is that I analyzed the unique mass spectral fingerprints for certain compounds that eluted from the CocoanOX 12 sample and the CocoanOX 45 fractions, and these mass spectral fingerprints matched the mass spectral fingerprints for undecamers and dodecamers.
- 24. Cocoa beans contain caffeine and theobromine, also known as xanthine alkaloids. In addition, cocoa beans have a particular identifying "fingerprint" of caffeine and theobromine. Specifically, when extracts of cocoa beans are analyzed by chromatography, the caffeine and

theobromine in the extracts create peaks that allow for the quantification of caffeine and theobromine. Cocoa beans contain a unique ratio of theobromine to caffeine.

- 25. In connection with my analysis of CocoanOX 12 and CocoanOX 45, I performed high performance liquid chromatography (HPLC) tests on the respective reconstituted samples, with ultraviolet (UV) and mass spectrometry detection, to identify and quantify theobromine and caffeine. The results of the HPLC analysis, with UV and mass spectrometry overlaid, for the CocoanOX 12 are shown in the trace of the attached Exhibit 6, while the results of the HPLC analysis, with UV and mass spectrometry overlaid, for the CocoanOX 45 are shown in the trace of the attached Exhibit 7.
- 26. Exhibits 8 and 9 depict these analyses, with only the UV trace of theobromine and caffeine in the samples using reverse phase HPLC. These Exhibits 8 and 9 were performed to quantify the amounts of theobromine and caffeine in the CocoanOX 12 and the CocoanOX 45.
- 27. I have concluded that caffeine and theobromine are present in both CocoanOX 12 and CocoanOX 45 samples.
- 28. I measured the ratios of theobromine to caffeine in the samples and I have concluded that the unique theobromine and caffeine "fingerprint" of the ratio of theobromine to caffeine indicates that CocoanOX 12 and CocoanOX 45 are both derived from cocoa beans.
- 29. By my analysis, the CocoanOX 45 contains, on a whole fat basis, 6.44% theobromine and 0.71% caffeine. The relatively high levels of theobromine and caffeine in CocoanOX 45 are consistent with an extract of cocoa.
- 30. By my analysis, the CocoanOX 12 contains, on a whole fat basis, 1.66% theobromine and 0.24% caffeine. The relatively low levels of theobromine and caffeine in CocoanOX 12 are consistent with a cocoa powder, not an extract.

- 31. The samples can also be analyzed to determine the presence or absence of solvents in the CocoanOX 12 and CocoanOX 45. This test is done by gas chromatography, followed by mass spectrometry of specific compounds.
- 32. Specifically, the samples are reconstituted by the addition of water to a vial, which is then sealed with a rubber seal. The vial is then heated, and a vapor forms in the head space at the top of the vial. The needle of a syringe is then inserted into the head space, through the rubber seal, and a portion of the vapor in the head space is withdrawn.
- 33. This vapor is injected into a gas chromatograph, and the components are separated by a temperature gradient.
- 34. As with HPLC, described above in paragraph 11, the retention time of a particular compound is the time at which the compound elutes from the column. Each compound elutes at a characteristic retention time. As each compound elutes, it is detected and creates a peak on a graph. The area under each peak corresponds to the amount of that compound in the sample.
- 35. Moreover, as each compound elutes, the compound is ionized and fragmented in a mass spectrometer. The mass to charge ratio of the fragment ions are detected and can be utilized to help identify the compound.
- 36. Exhibits 10 and 11 depict the results of these tests on CocoanOX 12 and CocoanOX 45, respectively.
- 37. From my analysis of Exhibit 10, I have concluded that CocoanOX 12 does not include a solvent. The basis for my conclusion is that none of the chromatographic peaks in the total ion chromatogram corresponded to the retention time of a common extraction solvent.

 Moreover, of the peaks that were present, their unique mass spectral fingerprint was inconsistent with the mass spectrum of a common extraction solvent.

- From my analysis of Exhibit 11, I have concluded that CocoanOX 45 includes a 38. solvent and that solvent is ethanol. The basis for my conclusion is that a chromatographic peak in the total ion chromatogram of CocoanOX 45 corresponded to the retention time of ethanol. Moreover, the unique mass spectral fingerprint of this peak was also consistent with that of ethanol. Therefore, I concluded that CocoanOX 45 contained ethanol.
- 39. To determine the quantity of ethanol, a second sample was prepared and was "spiked." Particularly, deuterated ethanol was made, with deuterium as a substitute for hydrogen, and this deuterated ethanol was added to the sample at approximately 100 parts per million (100 ppm). This sample was analyzed in the same manner as described at the above in paragraphs 31-35.
- Using the area under the curve for the ions that are characteristic of ethanol, vs. 40. ions that are characteristic of deuterated ethanol, the concentration of ethanol in the CocoanOX 45 was shown to be greater than 100 ppm.
- Therefore, from my analysis of Exhibit 11 and the quantification tests described 41. above in Paragraphs 39-40, I have concluded that CocoanOX 45 does include a solvent in an amount of at least 100 parts per million (100 ppm), and that that solvent is ethanol.
- In my opinion, and based upon my experience, there is only one reasonable 42. explanation for the presence of this level of ethanol solvent in the CocoanOX 45 extract. Particularly, the CocoanOX 45 was obtained by solvent extraction of the polyphenols from a ground cocoa bean to form solvent-derived cocoa polyphenols. The amount of ethanol that remains in the extract is a residue of this extraction process. CocoanOX 45 is, therefore, a cocoa extract.

- 43. I analyzed CocoanOX 12 to determine the fat content of CocoanOX 12. Fats in cocoa solids are soluble in petroleum ether solvent. Therefore, I extracted a sample of CocoanOX 12 with petroleum ether solvent to form an extract containing fats and petroleum ether solvent. I removed the petroleum ether solvent from the extract and compared the total weight of the fats remaining to the total weight of the sample to determine the percent fats within CocoanOX 12. I concluded that the sample of CocoanOX 12 contained 11.6% fats.
- The amount of fats that I analyzed according to the above process confirms the fat 44. content from Natraceutical's Certificate of Analysis for CocoanOX 12. Specifically, I have reviewed the Natraceutical "Certificate of Analysis: CCX Reduced Fat 12% Polyphenols" which it is my understanding is the Certificate of Analysis for CocoanOX 12, attached as Exhibit 12. That Certificate of Analysis indicates that the product has a fat content of 11.0%.
- 45. A typical cocoa bean has a fat content of approximately 58%. Therefore, the CocoanOX 12 product is at least partially defatted.
- I have found that CocoanOX 45 meets literally all of the elements of at least 46. Claims 1, 2, 3, 4 and 23 of the '966 patent. Subject to further analysis, it may also meet literally all of the elements of either 10 and 11, and either 13 or 14.
- 47. I have found that CocoanOX 12 meets literally all of the elements of at least Claims 15 and 16 of the '753 patent.

FURTHER DECLARANT SAYETH NOT.

I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct. Executed on April 12, 2007

John F. Hammerstone, Jr.

CHI99 4807157-3 002227 0120

Exhibit 1

Print of window 38: Current Chromatogram(s)

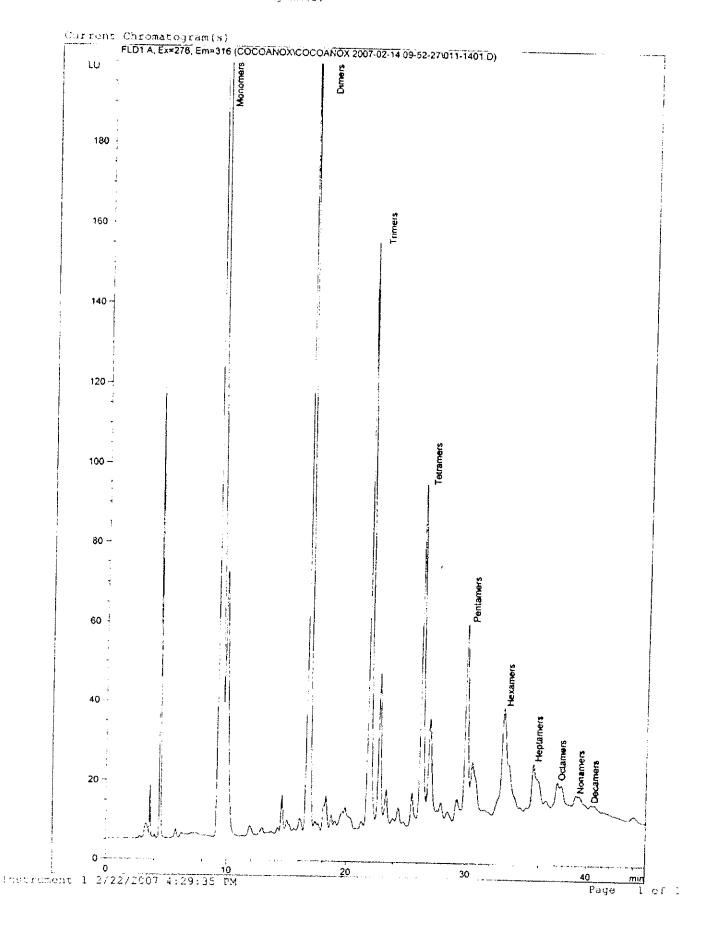


Exhibit 2

Print of window 38: Current Chromatogram(s)

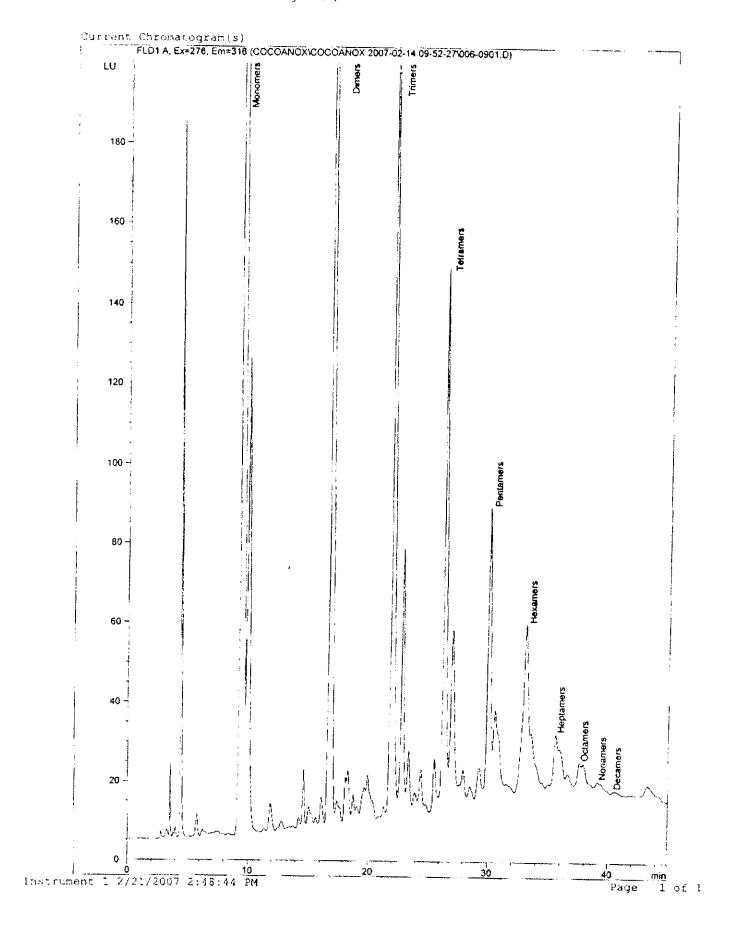


Exhibit 3

Data File D:\1\DATA\COCOANOX\COCOANOX 2007-02-14 09-52-27\012-1501.D

Sample Name: B2

在支票上是100mm,或是100mm,可以100mm,100mm,100mm,100mm,100mm,100mm,100mm,100mm,100mm,100mm,100mm,100mm,100mm,100mm,100mm

Acq. Operator : J Hammerstone Seq. Line : 15
Acq. Instrument : Instrument 2 Location : Vial 12
Injection Date : 2/15/2007 1:10:16 AM Inj : 1
Inj Volume : 5 µl

Acq. Method : D:\1\DATA\COCOANOX\COCOANOX 2007-02-14 09-52-27\SHORTPRO_MSS.M

Last changed : 2/15/2007 1:08:56 AM by J Hammerstone

(modified after loading)

Analysis Method : D:\1\METHODS\COCOANOX EPI.M

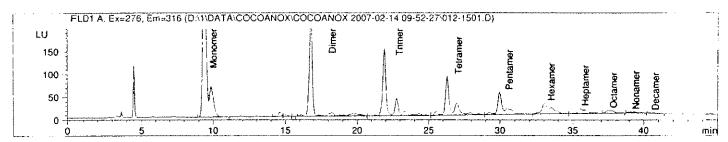
Last changed : 4/3/2007 11:36:35 AM

(modified after loading)

Method Info : Flavanols / Procyanidins by Normal Phase HPLC on Lichrosphere Silica

Sample Info : MSS-JH-O12-001-B-2 0.4005 mg =>mL

v_{www.}



在技术的主义社会,我就还有几月里的收益在证券的现在分词,我们也有国际的时间的现在形式的现在分词,我们也是是这种知识,我们也不是这种知识,我们可以是这种知识,我们可以是是这种知识,我们可以是是这种知识,我们

ESTD Percent Report

Sorted By : Signal

Calib. Data Modified : 4/3/2007 11:30:59 AM

Multiplier : 1.000e-2 Dilution : 5.0000

Sample Amount : 4.00500e-1 {grams} Use Multiplier & Dilution Factor with ISTDs

Signal 1; FLD1 A, Ex=276, Em=316

RetTime	Type	Area	Amt/Area	Amount	Grp Name
[min]		LU *s		8	
10.033	BBA+	8143.59131	2.65400e-4	26.982636	Monomer
18.270	BBA+	3791.46802	2.65400e-4	12.562492	Dimer
22,936	BVA+	3200.32349	2.65400e-4	10.603818	Trimer
27.083	VVA+	2339.79419	2.65400e-4	7.752577	Tetramer
30.611	VVA+	1491.15747	2.65400e~4	4.940739	Pentamer
33.491	+AVV	1045.14465	2.65400e-4	3.462939	Hexamer
35.867	+AVV	460.28207	2.65400e-4	1.525079	Heptamer
37.854	BBA+	232.32242	2.65400e-4	0.769767	Octamer
39.467	BBA+	94.13748	2.65400e-4	0.311911	Nonamer
40.792	BBA+	11.19667	2.65400e-4	3.70986e-2	Decamer

Totals: 68.949057

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Data File D:\1\DATA\COCOANOX\COCOANOX 2007-02-14 09-52-27\012-1501.0 Sample Name: B2

Acq. Operator : J Hammerstone Seq. Line : 15
Acq. Instrument : Instrument 2 Location : Vial 12
Injection Date : 2/15/2007 1:10:16 AM Inj : 1

Inj Volume : 5 µl

Acq. Method : D:\1\DATA\COCOANOX\COCOANOX 2007-02-14 09-52-27\SHORTPRO_MSS.M

Last changed : 2/15/2007 1:08:56 AM by J Hammerstone (modified after loading)

Analysis Method: D:\1\METHODS\COCOANOX EPI.M

Last changed : 4/3/2007 11:36:35 AM

(modified after loading)

Method Info : Flavanols / Procyanidins by Normal Phase HPLC on Lichrosphere Silica

Sample Info : MSS-JH-O12-001-B-2 - 0.4005 mg =>mL

*** End of Report ***

Exhibit 4

Display Report - All Windows Selected Analysis

Analysis Name: Method:

065-1001.D

Instrument: LC-MSD-Trap-XCT_ultra_II Print Date: 4/5/2007 8:10:33 PM

FASTDIOLMS.M

Operator: Administrator

Acq. Date: 4/5/2007 7:35:S1 PM

Sample Name:

Sample B

MSS-JH-012-001-B 1.014g extracted with 4 mL of acetone buffer

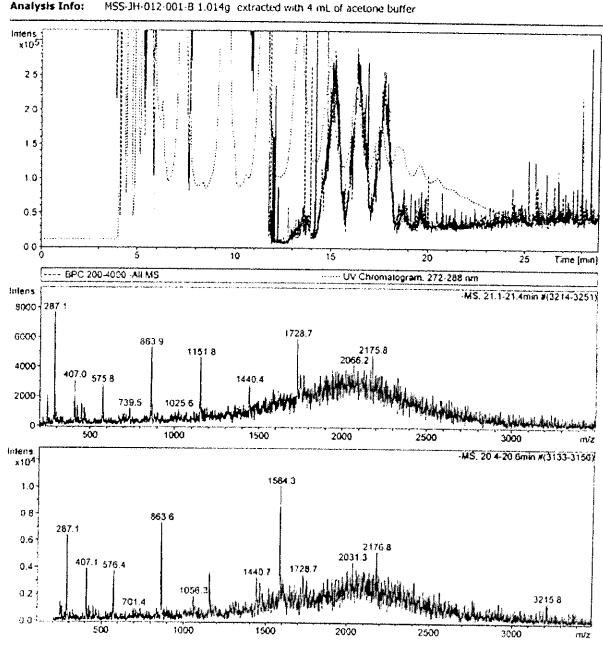


Exhibit 5

Display Report - All Windows Selected Analysis

Analysis Name:

064-0401,D

Instrument: LC-MSD-Trap-XCT_ultra_II Print Date: 4/5/2007 5:38:01 PM

Method:

FASTDIOLMS.M

Operator: Administrator Acq. Date: 4/5/2007 4:31:26 PM

Sample Name:

Sample A Fct 8

MSS-JH-012-001-A fractionated on sephadex LH-20 FCT 8

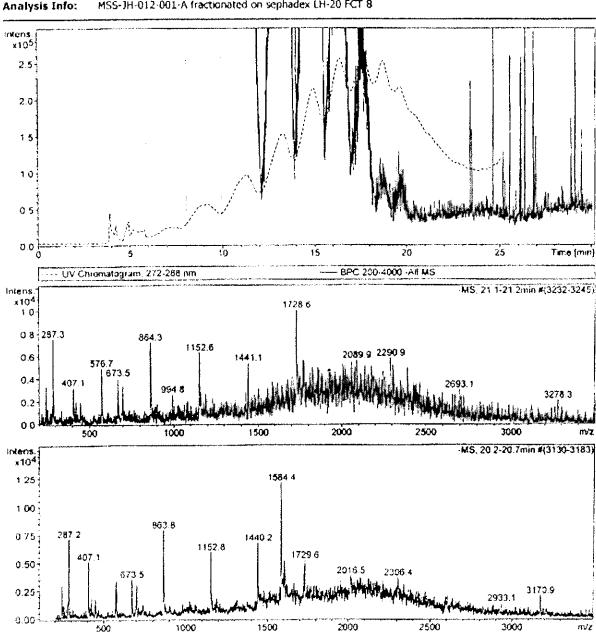


Exhibit 6

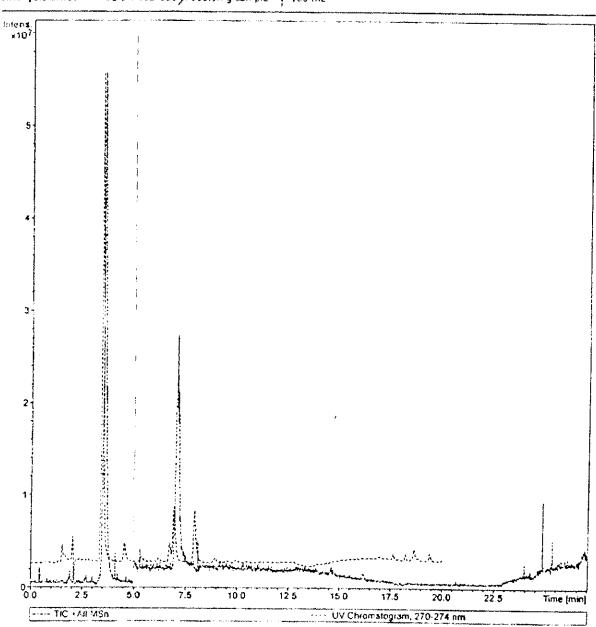
Display Report - All Windows Selected Analysis

Instrument: LC-MSD-Trap-XCT_ultra_II Print Date: 2/24/2007 12:10:57 PM Analysis Name: O.1080 £00 Method: THEOCAE.M

Sample Name: Sample B

Operator: Administrator Acq. Date: 2/21/2007 3:53:27 PM

MSS-JH-012-001 X 101.9mg sample = \$ 100 mL Analysis Info:

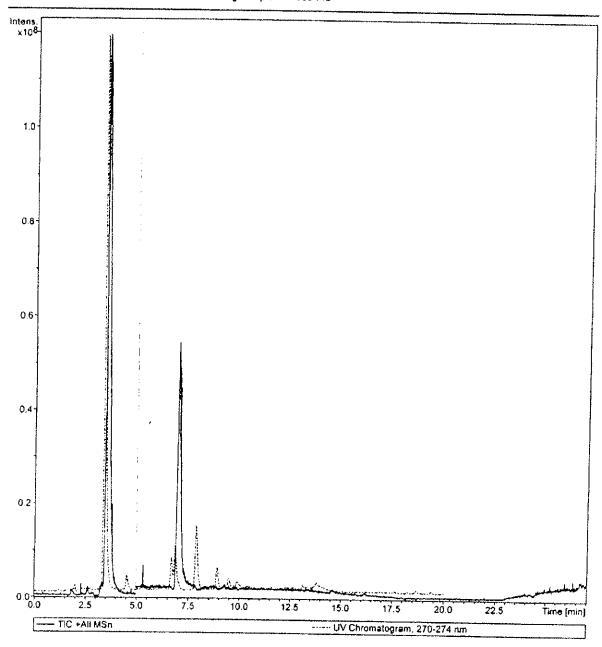


Display Report - All Windows Selected Analysis

Instrument: LC-MSD-Trap-XCT_ultra_II Print Date: 2/24/2007 12:09:28 PM Analysis Name: 002-0701.D Method: THEOCAF.M Operator: Administrator Acq. Date: 2/21/2007 3:26:04 PM

Sample Name: Sample A

Analysis Info: MSS-JH-012-001-A 113.8mg sample \Rightarrow 100 mL



Data File D:\CATA\COCGANOX\003-0801.5

Sample Name: Sample B

Acq. Operator : Hammer Seq. Line: 8 Acq. Instrument : Instrument 1 Location: Vial 3 Injection Date : 2/21/2007 3:53:26 FM Inj : 1 Ini Volume : 5 pl

Acq. Method

: D:\METHODS\THEOCAF.m : 2/21/2007 3:53:10 FM by Hammer Last changed

Analysis Method : D:\METHODS\THEOCAF.M

: 2/24/2007 12:30:39 PM by Hammer Last changed

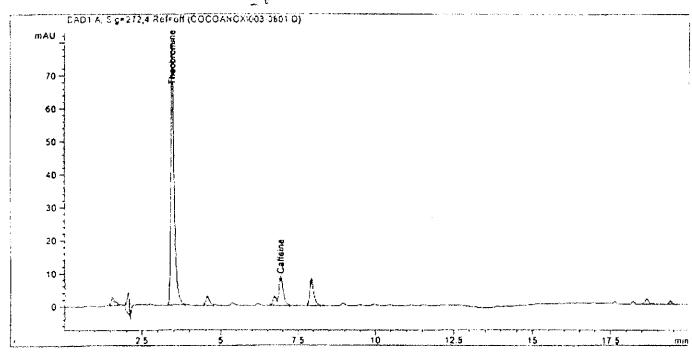
Method Info : Theobromine/Cafféine

5um Hypersil CDS 125 x 2.0mm

Column Temp 40C Water w/ BOAC - ACN Cradient

_ : MSS-JH-012-001-}4[101.9mg sample ⇒> 100 mL Sample Info

- بها با



External Standard Report

Signal Scried By

Calib. Data Modified 2/24/2007 12:28:36 PM

Multiplier 1.0000 1.0000 Dilution

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=272,4 Ref=off

RetTime [min]	••	Area [mAU*s]	Amt/Area	Amount [mg/mL]	•	Name
3.438 6.920	BB	585,23901	2.88893e-5 3.16739e-5	1.69072e-2		Theobromine Caffeine

1.95628e-2 Totals :

Data File D:\DATA\COCOANOX\002-0701.D

Sample Name: Sample A

Acq. Operator : Hammer Seq. Line : 7
Acq. Instrument : Instrument 1 Location : Vial 2
Injection Date : 2/21/2007 3:26:04 PM Inj : 1

Inj : 1 Inj Volume : 5 µ1

Acq. Method : D:\METHODS\THEOCAF.m

Last changed : 2/21/2007 3:25:48 PM by Hammer Analysis Method : D:\METHODS\THEOCAF.M Last changed : 2/24/2007 12:28:36 PM by Hammer

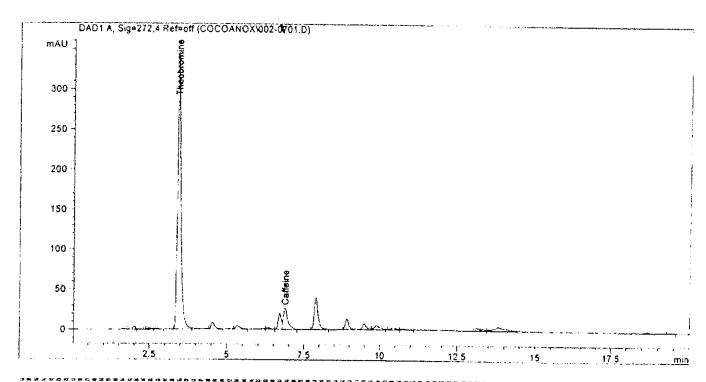
Method Info : Theobromine/Caffeine

5um Hypersil ODS 125 x 2.0mm

Column Temp 40C

Water w/ HOAC - ACN Gradient

Sample Info : MSS-JH-012-001-A 113.8mg sample -> 100 mL



External Standard Report

Sorted By : Signal

Calib. Data Modified : 2/24/2007 12:28:36 PM

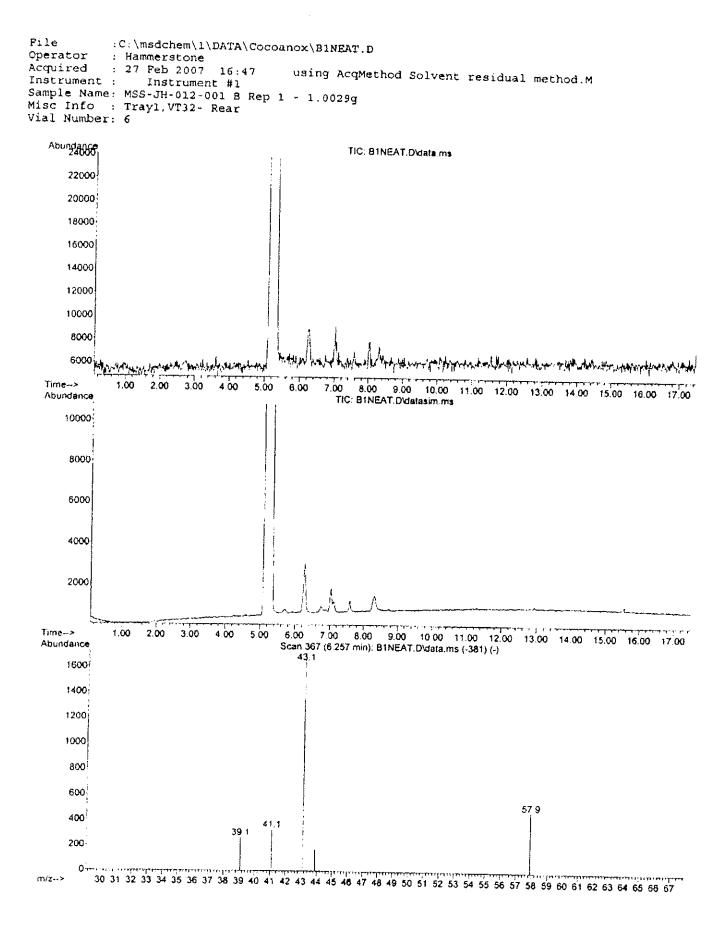
Multiplier : 1.0000 Dilution : 1.0000

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DADI A, Sig≈272,4 Ref=off

RetTime [min]	Туре	Area [mAU*s]	Amt/Area	[mq/mL]	Grp	Name
3.414 6.868	3B	2512.32202		7.28249e-2	Th	eobromine ffeine

Totals: 8.14452e-2



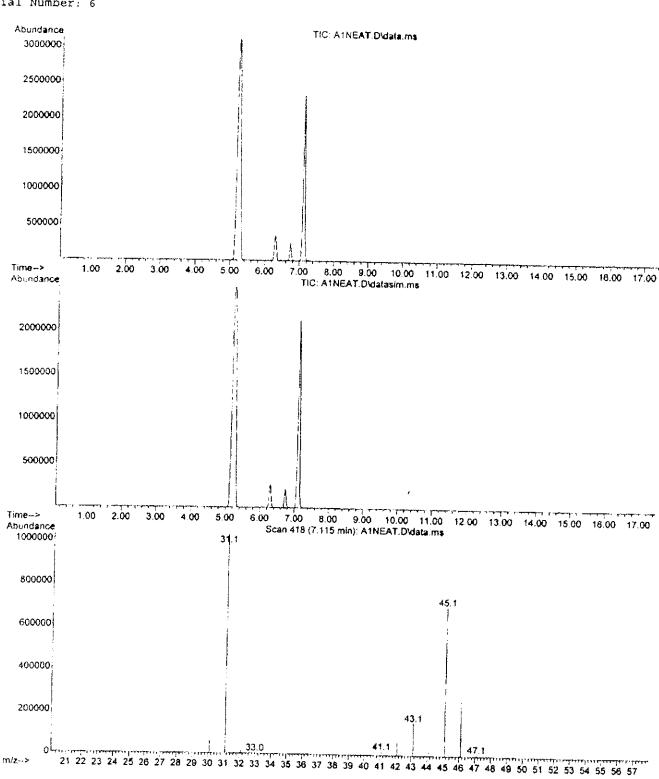
File :C:\msdchem\1\DATA\Cocoanox\AlNEAT.D Operator : Hammerstone

Acquired : 27 Feb 2007 16:11 using AcqMethod Solvent residual method.M

Instrument : Instrument #1 Sample Name: MSS-JH-012-001-A Rep 1 - 1.0150g

Misc Info : Tray1, VT32 - Rear

Vial Number: 6





CERTIFICATE OF ANALYSIS

CCX REDUCED FAT 12% POLYPHENOLS

Lot Nº: L@1257 Date of production:

20/12/05 10/04/04 Analysia Nº:

Shelf life: Cortificate date:

12/2007 05/05/04

Contract Nº: **Paramotore**

Date of enalysis:

Description Holanical name

Part of plant used Colow

Appearance

Physicochemical profile

Loss on drying (AOAC) Fall contains (AOAC)

bH (AOAC)

Nutritional profile Total polyphonois (cascas) (UV-Vis)

Microbiological profile

Total viable count (AOAC) Visite and include (AGAC) Uniterebacieriaceses (ACIAC)

E. CONT (ACAC) Selmonelle / 25g (AOAC)

Suggested storage conditions

Storage

Shot No

Specifications

THEODRIONA CACAO

COCOA NID BROWN-VKN EY POWO**≵**R

c= 0.0 % 10.0 - 12.0 % 5.0 - 7.0

>= 120%

ABSONT

ee \$,000 cl.u.kg 44 100 club «= 10 GLU/g ADSENT

4 100 C.F.U./G

38 & LU/5 ASSENT ABSENT

AUGMENT

Results

5.0 %

11.0 %

17.9%

3.7

STORE FROM 4 TO 20°C IN OFIGINAL SEALED PACKAGE AVOID EXPOSURE TO LIGHT, HEAT AND AIR

2 YEARS UNDER SUGGESTED STORAGE CONDITIONS

Approved by:

Quality Control Opt.

Quality Control Manager

Signaturo:





